

FAI OpenAPI (1.0.0)

Introduction

FAI OpenAPI is a RESTful API that caters to obtaining data such as Partner and Fulfillment...

For your convenience, other common API endpoints are also documented here.

Authentication

FAI OpenAPIs use the OAuth 2.0 protocol for authentication and authorization.

To begin, you need to send a request to VietFul to provide Client ID and Client Secret credentials.

Client credentials

Provided by VietFul.

Access token lifetime

Access tokens have limited lifetimes. Five minutes before your access token expires, or if a request to a FAI OpenAPI returns an HTTP status code, generate or refresh a new access token, or if a request to a FAI OpenAPI returns an HTTP status code `401`

Request signatures

Each HTTP request of a FAI OpenAPI operation must pass security verification to ensure log data security. FAI OpenAPI uses ClientSecret and asymmetric encryption algorithms to verify API requests.

Usage notes

FAI OpenAPI performs the following operations in the security verification process

- Identify the user who sends an API request.

Before a user sends an API request, the user must specify an ClientSecret to generate a digital signature for the API request. FAI OpenAPI uses the ClientSecret to identify the user and implement access control.

- Check whether an API request is tampered with during transmission.

After FAI OpenAPI receives an API request, FAI OpenAPI calculates a digital signature for the API request and compares the signature with the one generated on the client side. If the request is tampered with during transmission, the two signatures do not match, and the verification fails.

To generate a digital signature for an API request, you must use a ClientSecret. For more information, refer to ClientSecret. You must use an existing ClientSecret. Make sure that the ClientSecret is enabled

The following sections describe the request structure and the process of calculating a signature.

Request structure

The following table describes the required HTTP header fields of a valid API request. You must specify key-value pairs for the fields. The values are case-sensitive.

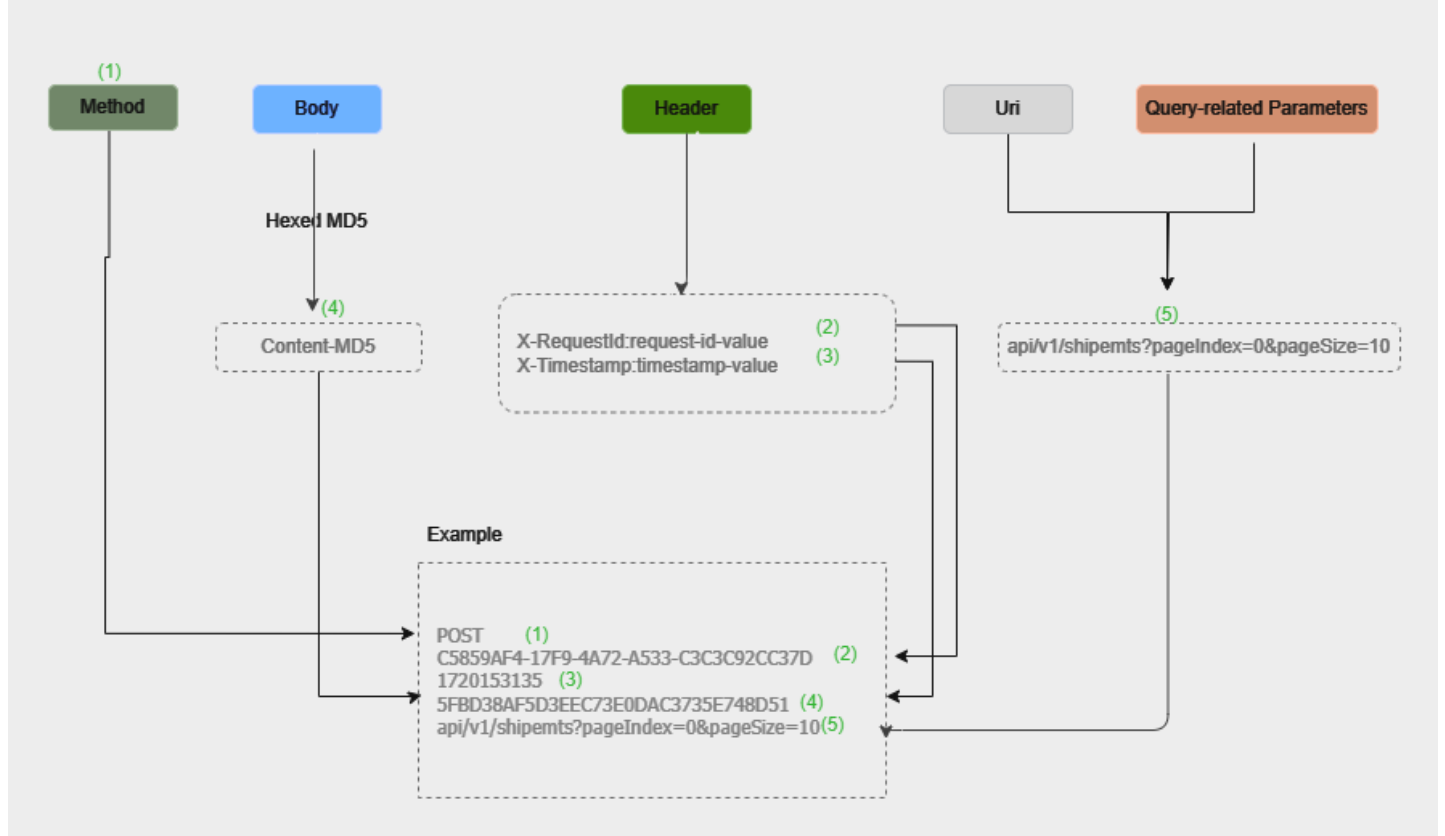
Field	Description	Example
X-RequestId	This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.	624deea6-b709-470c-8c39-4b5511281492
X-Timestamp	The standard timestamp header of the HTTP request. The header follows the time format of Unix timestamps in milliseconds.	1720580387000
X-Content-MD5	The MD5 hash value of the HTTP request body. You must convert the MD5 hash value into a hexadecimal string.	72A15D7DE7EE9E7BB86461FFEA9499
X-Signature	A signature string is generated by encrypting and encoding a signature message. The following figure shows how to construct a signature message.	RLETq4u7sWb3cssZIhsun

Signature calculation process

The X-Signature field is required for the signature structure. This section describes how to construct a signature string for the X-Signature field

Signature message

A signature string is generated by encrypting and encoding a signature message. The following figure shows how to construct a signature message.



Parameter	Description	Example
method	The HTTP request method. The value can contain only uppercase letters. Valid values: GET, POST, PUT, and DELETE.	GET
X-RequestId	This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.	624deea6-b709-470c-8c39-4b5511281492
X-Timestamp	The standard timestamp header of the HTTP request. The header follows the time format unix timestamps in milliseconds	17205803870
X-Content-MD5	The MD5 hash value of the HTTP request body. You must convert the value into a hexadecimal string that contains uppercase letters. If no HTTP request body exists, the value is an empty string.	72A15D7DE7EE9E7BB86461FFEA9499
Uri	The request path excluding the domain name and query-related parameters.	/api/v1/partners
Query-related parameters	The query-related parameters. The parameters are key-value pairs, and the key-value pairs are sorted in ascending order by key. The key and value in a key-value pair are connected by an equal sign (=). Key-value pairs are separated by ampersands (&) in the query string.	pageSize=10&pageIndex=0

The following sample code provides an example of a signature message. Each line ends with a line feed, except for

the last line.

Signature string

1. Obtain a signature message.
2. Use the HMAC-SHA256 algorithm and an AccessKey secret to encrypt the message, and obtain a hash value of the encryption result.
3. Encode the hash value in Base64 to generate a signature string.

Base URL by environment

Production base URL

- URL: `https://client-open-api.vnfai.com`

Sandbox base URL

- URL: `https://client-open-api.stg.vnfai.com`

Rate limits

In order to provide a high-quality service for all customers, our API is rate-limited. If you exceed the rate limit, the API responds with an HTTP 429 status code indicating 'API rate limit exceeded' status code, and you get temporarily blocked from accessing the API. In this case, retry your request after a few minutes.

The following endpoints are rate-limited:

- OAuth API: [Request access token](#). The limit is 1 call per five minutes
- Partner API:
 - [Get all partners](#). The limit is 1 call per five minutes
- Fulfillment API:
 - [Get all fulfillment fee types](#). The limit is 1 call per five minutes
 - [Get partners fulfillment billing](#). The limit is 20 calls per hour

Partner API

The purpose of the Partner API is to provide partners from the system.

Get all partners

Returns all partners from the system that the user has access to

HEADER PARAMETERS

Authorization required	string Your Bearer token. The following Request access token .
X-RequestId required	string The following request signatures
X-Signature required	string The following request signatures
X-Timestamp required	string The following request signatures

Responses

✓ 200 Successfully

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

Array [

code required	string Partner code
conditionTypes >	Array of objects (ConditionType) List of condition types that partner can use
fullName required	string Partner name

shippingServices >	Array of objects (ShippingService) List of shipping services that partner can use
shortName required	string Partner short name
warehouses >	Array of objects (Warehouse) List of warehouses that partner can use

]

▼ 400 Bad request

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

▼ 401 Unauthorized

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
------------------	----------------------

<div><div></div><div>errorMessage</div><div>required</div></div>	string Error description
--	-----------------------------

▼ **429** Too many requests

RESPONSE HEADERS

<div><div></div><div>X-TransactionId</div><div>required</div></div>	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
<div><div></div><div>X-RequestId</div><div>required</div></div>	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

<div><div></div><div>code</div><div>required</div></div>	string Error code
<div><div></div><div>errorMessage</div><div>required</div></div>	string Error description

GET /api/v1/partners



Response samples

200

400

401

429

Content type

application/json

Copy Expand all Collapse all

```
[
  - {
    "code": "string",
    "fullName": "string",
    "shortName": "string",
    + "warehouses": [ ... ],
    + "shippingServices": [ ... ],
    + "conditionTypes": [ ... ]
  }
]
```

OAuth API

The purpose of the OAuth API is to generate an access token for the sandbox and production environments.

Request access token

The purpose of the OAuth API is to generate an access token for the sandbox and production environments

Prerequisites

To make requests to this endpoint, you need to have the Client ID and Client Secret credentials.

Implementation flow

Your implementation must adhere to this flow:

1. Generate an access token.
2. Store the token, along with the expiration timestamp, in a persistent storage.
3. Attach the token as a Bearer token with every API request to a FAI OpenAPI. This means that for the

`Authorization` HTTP header, the value must be `Bearer <INSERT ACCESS TOKEN>`.

4. Five minutes before the token expires, or if a request to a FAI OpenAPI returns an HTTP `401` status code, refresh this token.

Validity period is dynamic and may change from time to time. The minimum validity period is *one hour*.

Note: If `grantType` is set to `refresh_token` then the `refreshToken` field must have a value. Otherwise, if `grantType` is set to `client_credentials` then the `refreshToken` field is left blank.

PATH PARAMETERS

<code>realm</code> <code>required</code>	string Provided by VietFul.
---	--------------------------------

HEADER PARAMETERS

<code>X-RequestId</code> <code>required</code>	string The following request signatures
---	--

<code>X-Timestamp</code> <code>required</code>	string The following request signatures
---	--

REQUEST BODY SCHEMA: `application/x-www-form-urlencoded`

<code>clientId</code> <code>required</code>	string Provided by VietFul.
--	--------------------------------

<code>clientSecret</code> <code>required</code>	string Provided by VietFul.
--	--------------------------------

<code>grantType</code> <code>required</code>	string Enum: <code>"client_credentials"</code> <code>"refresh_token"</code>
---	--

<code>refreshToken</code>	string Required if <code>grantType</code> is set to <code>refresh_token</code>
---------------------------	---

Responses

✓ **200 Successfully**

RESPONSE HEADERS

<code>X-TransactionId</code> <code>required</code>	string Example: <code>"624deea6-b709-470c-8c39-4b5511281492"</code> The transaction ID is a special set of numbers that defines each request.
---	---

<code>X-RequestId</code> <code>required</code>	string Example: <code>"8032405e-f3fd-4961-8e49-3f760dd02d9b"</code>
---	--

This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

accessToken required	string Token used with every request sent to FAI OpenAPI.
expiresIn required	integer accessToken expiration in second.
refreshExpiresIn required	integer refreshToken expiration in second.
refreshToken required	string Used for accessToken refreshing. This token will be INVALID when refreshToken expiresIn passes.
tokenType required	string Allowed values: bearer.

▼ 400 Bad request

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

▼ 429 Too many requests

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

POST /auth/realms/{realm}/protocol/openid-connect/token

Response samples

200

400

429

Content type
application/json

Copy

```
{
  "accessToken": "string",
  "expiresIn": 0,
  "refreshExpiresIn": 0,
  "refreshToken": "string",
  "tokenType": "string"
}
```

Get fulfillment billing

Returns fulfillment billing of customers

QUERY PARAMETERS

customerCodes	string Example: <code>customerCodes=customerCode1,customerCode2,customerCode3</code> Partner code list, separate by comma. If empty, it get billing of 10 customers. Maximum 100 customers
month required	integer [1 .. 12] Example: <code>month=7</code> Month
year required	integer [2020 .. 9999] Example: <code>year=2024</code> Year

HEADER PARAMETERS

Authorization required	string Your Bearer token. The following Request access token .
X-RequestId required	string The following request signatures
X-Signature required	string The following request signatures
X-Timestamp required	string The following request signatures

Responses

✓ 200 Successfully

RESPONSE HEADERS

X-TransactionId required	string Example: <code>"624deea6-b709-470c-8c39-4b5511281492"</code> The transaction ID is a special set of numbers that defines each request.
-----------------------------	---

X-RequestId
required

string

Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b"

This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

Array [

X- code required	string Partner code
discountedAmount	number Discounted amount
feeDetails >	Array of objects (FeeDetail)
X- name required	string Partner short name
paymentAmount	number Payment amount = <code>totalAmount</code> - <code>discountedAmount</code>
totalAmount	number Total amount = sum (<code>feeDetails.amount</code>)

]

▼ 400 Bad request

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

X- code required	string Error code
errorMessage required	string Error description

▼ 401 Unauthorized

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

▼ 429 Too many requests

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

GET

/api/v1/fulfillments/billing-infos



Response samples

200

400

401

429

Content type

application/json





Copy Expand all Collapse all

```
[
  - {
    "code": "string",
    "name": "string",
    "totalAmount": 0,
    "discountedAmount": 0,
    "paymentAmount": 0,
    + "feeDetails": [ ... ]
  }
]
```

Get fee types

Returns fee types


HEADER PARAMETERS

 Authorization required	string Your Bearer token. The following Request access token .
 X-RequestId required	string The following request signatures
 X-Signature required	string The following request signatures
 X-Timestamp required	string The following request signatures

Responses

✓ **200** Successfully

RESPONSE HEADERS

 X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
---	--

X-RequestId
required

string

Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b"

This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

Array [

code
required

string

Fee type code

name
required

string

Fee type name

]

▼ 400 Bad request

RESPONSE HEADERS

X-TransactionId
required

string

Example: "624deea6-b709-470c-8c39-4b5511281492"

The transaction ID is a special set of numbers that defines each request.

X-RequestId
required

string

Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b"

This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code
required

string

Error code

errorMessage
required

string

Error description

▼ 401 Unauthorized

RESPONSE HEADERS

X-TransactionId
required

string

Example: "624deea6-b709-470c-8c39-4b5511281492"

The transaction ID is a special set of numbers that defines each request.

X-RequestId
required

string

Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b"

This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

<div>code</div> <div>required</div>	<div>string</div> <div>Error code</div>
<div>errorMessage</div> <div>required</div>	<div>string</div> <div>Error description</div>

▼ **429** Too many requests

RESPONSE HEADERS

<div>X-TransactionId</div> <div>required</div>	<div>string</div> <div>Example: "624deea6-b709-470c-8c39-4b5511281492"</div> <div>The transaction ID is a special set of numbers that defines each request.</div>
<div>X-RequestId</div> <div>required</div>	<div>string</div> <div>Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b"</div> <div>This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.</div>

RESPONSE SCHEMA: application/json

<div>code</div> <div>required</div>	<div>string</div> <div>Error code</div>
<div>errorMessage</div> <div>required</div>	<div>string</div> <div>Error description</div>

GET /api/v1/fulfillments/fee-types



Response samples

200

400

401

429

Content type

application/json

Copy Expand all Collapse all

```
[
  - {
    "code": "string",
    "name": "string"
  }
]
```





Sorting Session API

Sorting Session API

Get main location of sorting session

Returns main location of the sorting session

HEADER PARAMETERS

 Authorization required	string Your Bearer token. The following Request access token .
 X-RequestId required	string The following request signatures
 X-Signature required	string The following request signatures
 X-Timestamp required	string The following request signatures

Responses

✓ **200** Successfully

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

isPending	boolean Is pending
locationId required	integer Location ID
numberOfTransport	integer Number of transport
pickListId required	integer Pick list ID
sortingSessionId	integer or null Current sorting session ID

▼ 400 Bad request

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

▼ 401 Unauthorized

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

▼ 429 Too many requests

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

GET /api/v1/sorting-sessions/info/{code}



200

400

401

429

Content type

application/json





Copy

```
{
  "pickListId": 0,
  "locationId": 0,
  "numberOfTransport": 0,
  "isPending": true,
  "sortingSessionId": 0
}
```

Get location info of sorting session

Returns valid location information for the sorting session


HEADER PARAMETERS

 Authorization required	string Your Bearer token. The following Request access token .
 X-RequestId required	string The following request signatures
 X-Signature required	string The following request signatures
 X-Timestamp required	string The following request signatures

Responses

✓ **200** Successfully

RESPONSE HEADERS

 X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
---	--

X-RequestId
required

string

Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b"

This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

isAvailable
required

boolean

Is available

isSortingDevice
required

boolean

Is sorting device

▼ 400 Bad request

RESPONSE HEADERS

X-TransactionId
required

string

Example: "624deea6-b709-470c-8c39-4b5511281492"

The transaction ID is a special set of numbers that defines each request.

X-RequestId
required

string

Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b"

This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code
required

string

Error code

errorMessage
required

string

Error description

▼ 401 Unauthorized

RESPONSE HEADERS

X-TransactionId
required

string

Example: "624deea6-b709-470c-8c39-4b5511281492"

The transaction ID is a special set of numbers that defines each request.

X-RequestId
required

string

Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b"

This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

<div>code</div> <div>required</div>	string Error code
<div>errorMessage</div> <div>required</div>	string Error description

▼ **429** Too many requests

RESPONSE HEADERS

<div>X-TransactionId</div> <div>required</div>	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
<div>X-RequestId</div> <div>required</div>	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

<div>code</div> <div>required</div>	string Error code
<div>errorMessage</div> <div>required</div>	string Error description

GET /api/v1/sorting-sessions/location/{code}

Response samples

200

400

401

429

Content type

application/json

Copy

```
{
  "isAvailable": true,
  "isSortingDevice": true
}
```

Start sorting session

Returns information in the created sorting session

HEADER PARAMETERS

Authorization required	string Your Bearer token. The following Request access token .
X-Content-MD5 required	string The following request signatures
X-RequestId required	string The following request signatures
X-Signature required	string The following request signatures
X-Timestamp required	string The following request signatures

REQUEST BODY SCHEMA: application/json

pickupLocationId	integer Pickup location ID
sortingLocations	Array of strings
userCode required	string User code. Provided by VF to identify the user.
warehouseCode required	string Warehouse code. Provided by VF to identify the warehouse.

Responses

✓ 200 Successfully

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

items >	Array of objects (SortingSessionItem) List of sorting items
pickupLocationCode required	string Pickup location code
products >	Array of objects (ProductSortingSessionInfo) List of products
sortingSessionId required	integer Sorting session ID
totalQty	integer Total quantity
totalSortedQty	integer Total sorted quantity

▼ 400 Bad request

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
------------------	----------------------

<div><div></div><div>errorMessage</div><div>required</div></div>	string Error description
--	-----------------------------

▼ 401 Unauthorized

RESPONSE HEADERS

<div><div></div><div>X-TransactionId</div><div>required</div></div>	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
<div><div></div><div>X-RequestId</div><div>required</div></div>	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

<div><div></div><div>code</div><div>required</div></div>	string Error code
<div><div></div><div>errorMessage</div><div>required</div></div>	string Error description

▼ 429 Too many requests

RESPONSE HEADERS

<div><div></div><div>X-TransactionId</div><div>required</div></div>	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
<div><div></div><div>X-RequestId</div><div>required</div></div>	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

<div><div></div><div>code</div><div>required</div></div>	string Error code
<div><div></div><div>errorMessage</div><div>required</div></div>	string Error description

POST /api/v1/sorting-sessions



Request samples

Payload

Content type

application/json

Copy Expand all Collapse all

```
{
  "userCode": "string",
  "warehouseCode": "string",
  "pickupLocationId": 0,
  - "sortingLocations": [
    "string"
  ]
}
```

Response samples

200

400

401

429

Content type

application/json

Copy Expand all Collapse all

```
{
  "sortingSessionId": 0,
  "pickupLocationCode": "string",
  "totalQty": 0,
  "totalSortedQty": 0,
  - "products": [
    + { ... }
  ],
  - "items": [
    + { ... }
  ]
}
```

Process sorting session

Returns information about the sorting session after processes

PATH PARAMETERS

<div>id</div> <div>required</div>	<div>integer</div> <div>Sorting session ID</div>
-----------------------------------	--

HEADER PARAMETERS

<div>Authorization</div> <div>required</div>	<div>string</div> <div>Your Bearer token. The following Request access token.</div>
<div>X-Content-MD5</div> <div>required</div>	<div>string</div> <div>The following request signatures</div>
<div>X-RequestId</div> <div>required</div>	<div>string</div> <div>The following request signatures</div>
<div>X-Signature</div> <div>required</div>	<div>string</div> <div>The following request signatures</div>
<div>X-Timestamp</div> <div>required</div>	<div>string</div> <div>The following request signatures</div>

REQUEST BODY SCHEMA: application/json

<div>conditionTypeId</div>	<div>integer</div> <div>Condition type ID</div>
<div>expiredDate</div>	<div>integer <int64></div> <div>Expired date (Unix timestamp in seconds)</div>
<div>isSingleItem</div>	<div>boolean</div> <div>Is single item</div>
<div>productId</div>	<div>integer</div> <div>Product ID</div>
<div>productType</div>	<div>integer</div> <div>Enum: <div>1</div> <div>2</div> <div>3</div></div> <div>Product type:</div> <div><div>• 1: Serial</div><div>• 2: Batch</div><div>• 3: Attribute</div></div>
<div>storageCode</div>	<div>string</div> <div>Storage code</div>

unitId	integer Unit ID
userCode required	string User code. Provided by VF to identify the user.
warehouseCode required	string Warehouse code. Provided by VF to identify the warehouse.

Responses

✓ 200 Successfully

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

isSortingDevice	boolean Is sorting device
locationCode	string Location code
locationId	integer Location ID
locationIndex	integer Location index
qty	integer Quantity
requestData >	object Request data

▼ 400 Bad request

RESPONSE HEADERS

<div><div></div>X-TransactionId</div> <div>required</div>	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
<div><div></div>X-RequestId</div> <div>required</div>	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

<div><div></div>code</div> <div>required</div>	string Error code
<div><div></div>errorMessage</div> <div>required</div>	string Error description

▼ 401 Unauthorized

RESPONSE HEADERS

<div><div></div>X-TransactionId</div> <div>required</div>	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
<div><div></div>X-RequestId</div> <div>required</div>	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

<div><div></div>code</div> <div>required</div>	string Error code
<div><div></div>errorMessage</div> <div>required</div>	string Error description

▼ 429 Too many requests

RESPONSE HEADERS

<div><div></div>X-TransactionId</div> <div>required</div>	string Example: "624deea6-b709-470c-8c39-4b5511281492"
---	---

	The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

POST /api/v1/sorting-sessions/{id}/process

Request samples

Payload

Content type

application/json

Copy

```
{
  "userCode": "string",
  "warehouseCode": "string",
  "productId": 0,
  "unitId": 0,
  "conditionTypeId": 0,
  "productType": 1,
  "expiredDate": 1751440125,
  "storageCode": "string",
  "isSingleItem": true
}
```

Response samples

200

400

401

429

Content type

application/json

Copy Expand all Collapse all

```

{
  "locationId": 0,
  "locationIndex": 0,
  "locationCode": "string",
  "isSortingDevice": true,
  "qty": 0,
  - "requestData": {
    "method": "string",
    "url": "string",
    "body": "string",
    "contentType": "string"
  }
}

```

Pending sorting session

Returns the pending sorting session results

PATH PARAMETERS

<div> <div></div> <div>id</div> <div>required</div> </div>	integer Sorting session ID
--	-------------------------------

HEADER PARAMETERS

<div> <div></div> <div>Authorization</div> <div>required</div> </div>	string Your Bearer token. The following Request access token .
<div> <div></div> <div>X-Content-MD5</div> <div>required</div> </div>	string The following request signatures
<div> <div></div> <div>X-RequestId</div> <div>required</div> </div>	string The following request signatures
<div> <div></div> <div>X-Signature</div> <div>required</div> </div>	string The following request signatures
<div> <div></div> <div>X-Timestamp</div> <div>required</div> </div>	string The following request signatures

REQUEST BODY SCHEMA: application/json

<div> <div></div> <div>userCode</div> <div>required</div> </div>	string User code. Provided by VF to identify the user.
--	--

warehouseCode
required

string
Warehouse code.

Provided by VF to identify the warehouse.

Responses

✓ 204 Successfully

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

✓ 400 Bad request

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

✓ 401 Unauthorized

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

▼ 429 Too many requests

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

POST /api/v1/sorting-sessions/{id}/pending



Request samples

Payload

Content type

application/json

Copy

```
{
  "userCode": "string",
  "warehouseCode": "string"
}
```

Response samples

400

401

429

Content type

application/json

Copy

```
{
  "code": "string",
  "errorMessage": "string"
}
```





Restore sorting session

Restore the sorting session and return the result

PATH PARAMETERS

 id required	integer Sorting session ID
---	-------------------------------

HEADER PARAMETERS

 Authorization required	string Your Bearer token. The following Request access token .
 X-Content-MD5 required	string The following request signatures
 X-RequestId required	string The following request signatures
 X-Signature required	string The following request signatures

X-Timestamp required	string The following request signatures
-------------------------	--

REQUEST BODY SCHEMA: application/json

userCode required	string User code. Provided by VF to identify the user.
warehouseCode required	string Warehouse code. Provided by VF to identify the warehouse.

Responses

✓ 200 Successfully

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

items >	Array of objects (SortingSessionItem) List of sorting items
pickupLocationCode	string Pickup location code
products >	Array of objects (ProductSortingSessionInfo) List of products
sortingSessionId required	integer Sorting session ID
totalQty	integer Total quantity

totalSortedQty	integer
	Total sorted quantity

▼ 400 Bad request

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

▼ 401 Unauthorized

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

▼ 429 Too many requests

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

POST /api/v1/sorting-sessions/{id}/restore



Request samples

Payload

Content type
application/json

Copy

```
{
  "userCode": "string",
  "warehouseCode": "string"
}
```

Response samples

200

400

401

429

Content type
application/json

Copy Expand all Collapse all

```
{
  "sortingSessionId": 0,
  "pickupLocationCode": "string",
}
```

```

    "totalQty": 0,
    "totalSortedQty": 0,
    - "products": [
      + { ... }
    ],
    - "items": [
      + { ... }
    ]
  }

```

Finish sorting session

Finish the sorting session and return the result

PATH PARAMETERS

<div> <div></div> <div>id</div> <div>required</div> </div>	<div>integer</div> <div>Sorting session ID</div>
--	--

HEADER PARAMETERS

<div> <div></div> <div>Authorization</div> <div>required</div> </div>	<div>string</div> <div>Your Bearer token. The following Request access token.</div>
<div> <div></div> <div>X-Content-MD5</div> <div>required</div> </div>	<div>string</div> <div>The following request signatures</div>
<div> <div></div> <div>X-RequestId</div> <div>required</div> </div>	<div>string</div> <div>The following request signatures</div>
<div> <div></div> <div>X-Signature</div> <div>required</div> </div>	<div>string</div> <div>The following request signatures</div>
<div> <div></div> <div>X-Timestamp</div> <div>required</div> </div>	<div>string</div> <div>The following request signatures</div>

REQUEST BODY SCHEMA: application/json

<div> <div></div> <div>userCode</div> <div>required</div> </div>	<div>string</div> <div>User code.</div> <div>Provided by VF to identify the user.</div>
<div> <div></div> <div>warehouseCode</div> <div>required</div> </div>	<div>string</div> <div>Warehouse code.</div> <div>Provided by VF to identify the warehouse.</div>

Responses

▼ 200 Successfully

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

isSortingDevice required	boolean Is sorting device
requestData > required	object Request data

▼ 400 Bad request

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

▼ 401 Unauthorized

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

▼ 429 Too many requests

RESPONSE HEADERS

X-TransactionId required	string Example: "624deea6-b709-470c-8c39-4b5511281492" The transaction ID is a special set of numbers that defines each request.
X-RequestId required	string Example: "8032405e-f3fd-4961-8e49-3f760dd02d9b" This element allows you to assign a unique identifier to your request. This element is also returned in the reply and helps you match the request to the reply.

RESPONSE SCHEMA: application/json

code required	string Error code
errorMessage required	string Error description

POST /api/v1/sorting-sessions/{id}/finish



Request samples

Payload

Content type

application/json

Copy

```
{
  "userCode": "string",
  "warehouseCode": "string"
}
```

Response samples

200

400

401

429

Content type

application/json

Copy

Expand all

Collapse all

```
{
  "isSortingDevice": true,
  - "requestData": {
    "method": "string",
    "url": "string",
    "body": "string",
    "contentType": "string"
  }
}
```