

<This document is a subset of the API documentation I created for the Hansen Service Inventory Open API. Two endpoints (GET Subscribers and DELETE Service) are explained here. >

## Contents

|                                     |   |
|-------------------------------------|---|
| Open API Portal .....               | 1 |
| Accessing the Open API Portal ..... | 2 |
| Authorization .....                 | 2 |
| Subscriber Endpoints .....          | 2 |
| Get Subscribers .....               | 3 |
| Request Parameters .....            | 3 |
| Sample Request URL .....            | 4 |
| Response Parameters .....           | 4 |
| Sample Response .....               | 5 |
| Service Endpoints .....             | 5 |
| Delete a Service .....              | 5 |
| Request Parameters .....            | 6 |
| Sample Request URL .....            | 6 |
| Response Parameters .....           | 6 |
| Sample Response .....               | 6 |

# SERVICE INVENTORY APIS

Hansen Provision exposes Service Inventory Open APIs that you can use to view, create, modify, and delete subscribers and services. All APIs are based on the OpenAPI [specification](#). You can access them through Hansen's Swagger-based Open API Portal or use them as you would use any other RESTful API.

Service Inventory Open APIs are built on top of the Hansen Provision Service Inventory, a feature that uses Elasticsearch to index subscriber and service data. Most API endpoints require you to specify an index name as a request parameter. All request parameters are detailed in the Open API Portal. Responses are either an HTTP status code or an HTTP status code along with a JSON object.

## Open API Portal

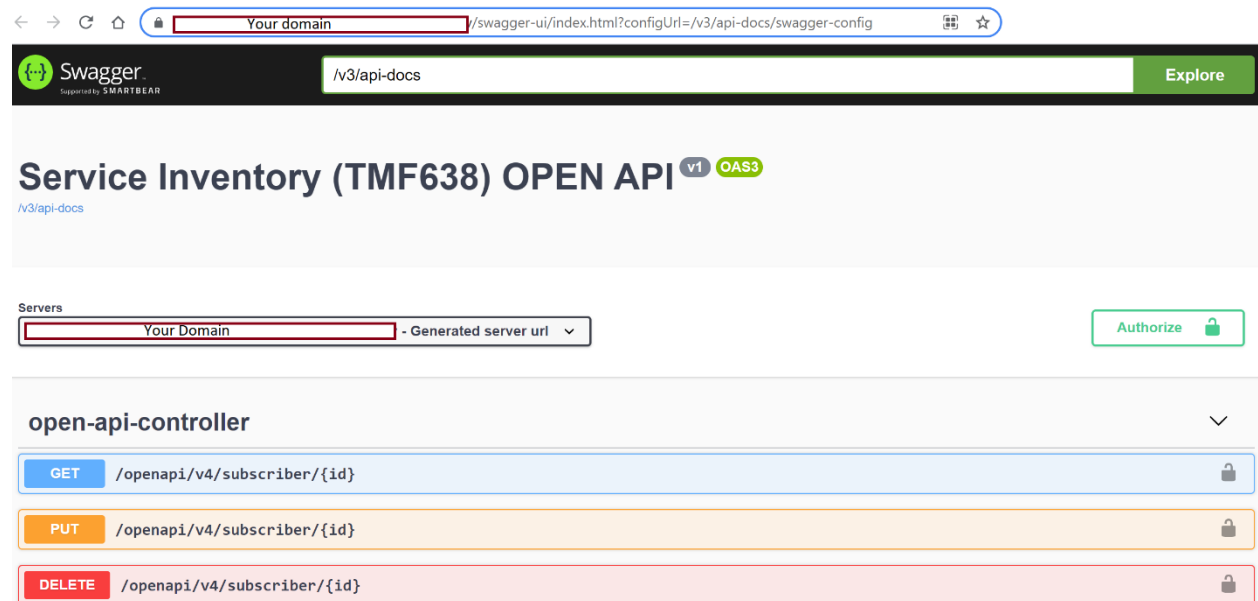
The Open API Portal is a Swagger UI that you can use to make Service Inventory API calls.

## Accessing the Open API Portal

To access the Service Inventory Open API portal, go to the following URL

<your domain>swagger-ui/index.html?configUrl=/v3/api-docs/swagger-config

You see the following page:



## Authorization

To use Service Inventory Open APIs, you need a valid JSON Web Token (JWT). You get the JWT from the identity provider used by Service Inventory. For example, if you use AWS, you will need to get a JWT from Amazon Incognito.

Make sure that your token has Create, Read, Update, and Delete (CRUD) scopes that correspond to the APIs that you want to use. If you face issues with getting a token, contact your administrator.

If you use the Open API Portal, you can authorize yourself in the UI. If you use another service to call APIs, like Postman, for example, pass the JWT as an HTTP authorization header.

Perform the following steps to authorize yourself in the Swagger UI:

1. Click **Authorize**.

The **Available authorizations** dialogue box appears

2. Paste your JWT in the **Value** field and then click **Authorize**.

You are authorized to use Service Inventory Open APIs.

## Subscriber Endpoints

Use the subscriber endpoints exposed by Service Inventory Open API to view, create, modify, and delete subscribers.

## Get Subscribers

Use the `GET/openapi/v4/subscriber` endpoint to query an index and view subscriber(s) details.

### Request Parameters

To view subscriber(s) details, provide the following parameters request parameters:

| Parameter | Description   | Example  |
|-----------|---|--|
| index     | Required<br><br>string<br><br>Name of the Elasticsearch index that you want to search.  | subscriber_mac_address   |
| template  | Optional<br><br>string<br><br>Name Elasticsearch template that you want to use  | my_template  |
| sort      | Optional<br><br>string<br><br>Parameters and direction by which you want the response to be sorted. Use a comma to specify multiple parameters. To sort by descending order, use a - (minus) sign.  | To sort by ascending order of years and descending order of months, use <code>year,-month</code> |
| text      | Optional<br><br>string<br><br>Specific text in the <code>_fulltext</code> field of the Elasticsearch template.<br><br>Note: If the index was created from the default index template, all field values are available for full-text search | textthatyouneed  |
| size      | Optional<br><br>integer<br><br>Maximum number of records to be returned.  | If you want the response to contain only 50 items, use 50.                                       |

|         |  |   |
|---------|--|---|
| offset  | <p>Optional</p> <p>Long</p> <p>Which records, if any, to skip.</p>   | <p>To skip the first 15 records and start searching at the 16th record, use 15.</p> |
| filters | <p>Optional</p> <p>string</p> <p>Filter responses based on the operators EQ (equals), LT (less than), GT (greater than), LTE (less than or equal), GTE (greater than or equal), IN (in), SW (starts with), or NIN (not in).</p> <ul style="list-style-type: none"> <li>• If the operator is anything other an EQ, queries must be in this JSON map format:<br/>{"filterName[operator]": "value\}"</li> <li>• If the operator is EQ queries must be in this JSON map format:<br/>{"filterName\"]="value\}"</li> </ul> <p>Here, filterName is the name of the field that you want to filter by, like mac_address or model.</p> <p>To use multiple filters, separate them with a comma.</p> | <pre>{\"subscriber_type\"=\ \"business\"}</pre>                                     |

### Sample Request URL

If you want to query the `subscriber_home_phone` index for subscribers with a `subscriber_type` of `business` and you only need the first 3 subscriber objects, make a GET call on the following URL:

```
<base_url>/openapi/v4/query?index=subscriber_home_phone&size=3&offset=0&subscriber_type=business
```

### Response Parameters

The response contains an HTTPS code and, if successful, a list of subscriber objects (one object for each subscriber in the response). To view schema for this object, go to the Open API portal, scroll down to the **json-schema-controller** section and then select **JsonSubscriber**.

## Sample Response

The following image shows the response to the above query:

```
{
  "content": [
    {
      "id": "CP831-00063-Sub",
      "externalKey": "CP831-00063-Sub",
      "version": 2,
      "name": "SANDRA BELL",
      "href": "/openapi/v4/Subscriber/CP831-00063-Sub",
      "state": "active",
      "serviceOrderItem": [ ... ],
      "createdDate": "2021-04-22T13:33:49.502Z",
      "entitySpecification": { ... },
      "entityCharacteristic": [ ... ],
      "lastModifiedTime": "2021-04-22T13:33:53.754Z",
      "subscriberType": "business",
      "serviceProviderName": "Liberate",
      "contact": [ ... ],
      "address": [ ... ],
      "service": [ ... ],
      "orderSummary": { ... },
      "@type": "Subscriber",
      "@schemaLocation": "/json-schema/openapi/v1/Subscriber"
    },
    { ... },
    { ... }
  ],
  "offset": 0,
  "size": 3,
  "total": 8578,
  "last": false
}
```

## Service Endpoints

Use the service endpoints exposed by Service Inventory Open API to view, create, modify, and delete services associated with a subscriber.

### Delete a Service

Use the `DELETE/openapi/v4/service/{id}` endpoint to delete a service using its service ID.

## Request Parameters

The request must contain the service ID, the unique identifier of a service associated with a subscriber. To find a service's service ID, go to **Workflow UI > Orders > Order Details** and see the line items for the order.

There are no other request parameters.

## Sample Request URL

To delete a service with service ID CP876-00066-

SubSvcSpec:samp\_ds\_hsd\_access237188072794@CP876-00066-Sub, make a DELETE call on the following URL:

```
<base_url>/openapi/v4/service/CP876-00066-SubSvcSpec%3Asamp_ds_hsd_access237188072794%40CP876-00066-Sub
```

## Response Parameters

The response contains an HTTPS code that indicates whether the request was successful or not.

## Sample Response

The following image shows the response when a service has been successfully deleted:

| Server response |   |
|-----------------|---|
| Code            | Details   |
| 200             | <div>Response headers<div>content-length: 0<br/>content-security-policy: upgrade-insecure-requests<br/>date: Sat,04 Sep 2021 22:05:25 GMT<br/>strict-transport-security: max-age=15724800; includeSubDomains<br/>vary: Origin,Access-Control-Request-Method,Access-Control-Request-Headers<br/>x-envoy-upstream-service-time: 218</div></div> |
| Responses       |   |
| Code            | Description   |
| 200             | Service deleted successfully  |