

# Production API and Registration Process

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## Registration Prerequisites

To safeguard the integrity, security and performance of UPD, we need you to carry out a simple test in UAT before we can grant access to use the UPD API in production. The test is described below.

For auditing reasons, you should use only one API account to access the UPD API in production.

\*\*\*\* Description of the UAT test \*\*\*\*

**Step 1:** POST a Bundle containing MedicinalProductDefinition and other resources to the UAT API Endpoint <https://spor-uat.azure-api.net/pms/api/v2/> for NAP Create.

**Step 2:** When the payload passes validation and is accepted, there are 2 possible HTTP response status codes.

**Step 3:** For 'HTTP 201 Created', extract the MedicinalProductDefinition Permanent Identifier e.g. 600000004432 from the API response and email this to [UPD-Registration@ema.europa.eu](mailto:UPD-Registration@ema.europa.eu)

**Step 4:** For 'HTTP 202 Accepted', extract the value of the "Content-Location" header from the API response and email this to [UPD-Registration@ema.europa.eu](mailto:UPD-Registration@ema.europa.eu).

The value of the 'Content-Location' header will follow this format :-OperationOutcome/d5e7d08c-3ebd-414e-a9ed-0aff32047faf.

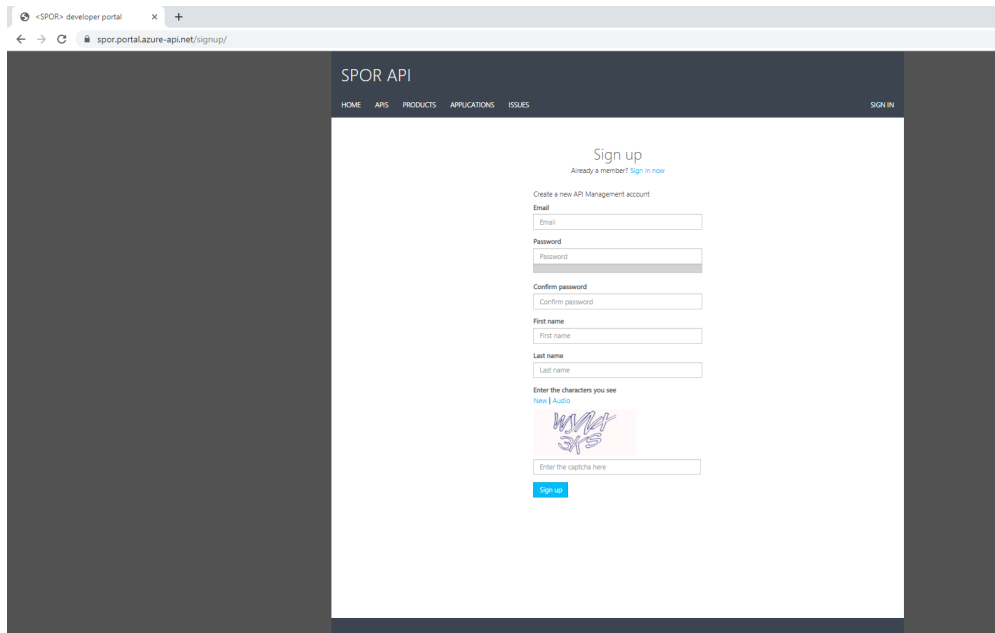
The OperationOutcome is used to query the status of the Medicinal Product creation process.

## API Manager

### Registration

**Step 1:** navigate to <https://spor.portal.azure-api.net/>

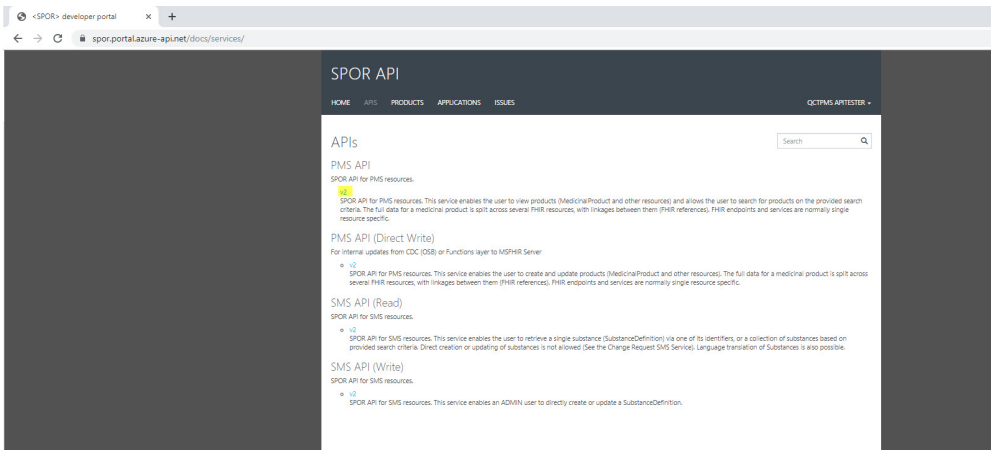
**Step 2:** if you have not yet got an account, follow the link [Sign up now](#)

A screenshot of a web browser showing the 'Sign up' page for the SPOR API. The page has a dark header with 'SPOR API' and navigation links for 'HOME', 'APIs', 'PRODUCTS', 'APPLICATIONS', 'ISSUES', and 'SIGN IN'. The main content area is white and contains a 'Sign up' form. The form includes fields for 'Email', 'Password', 'Confirm password', 'First name', and 'Last name'. There is also a CAPTCHA section with a 'New! Audio' link and a 'Sign up' button at the bottom.

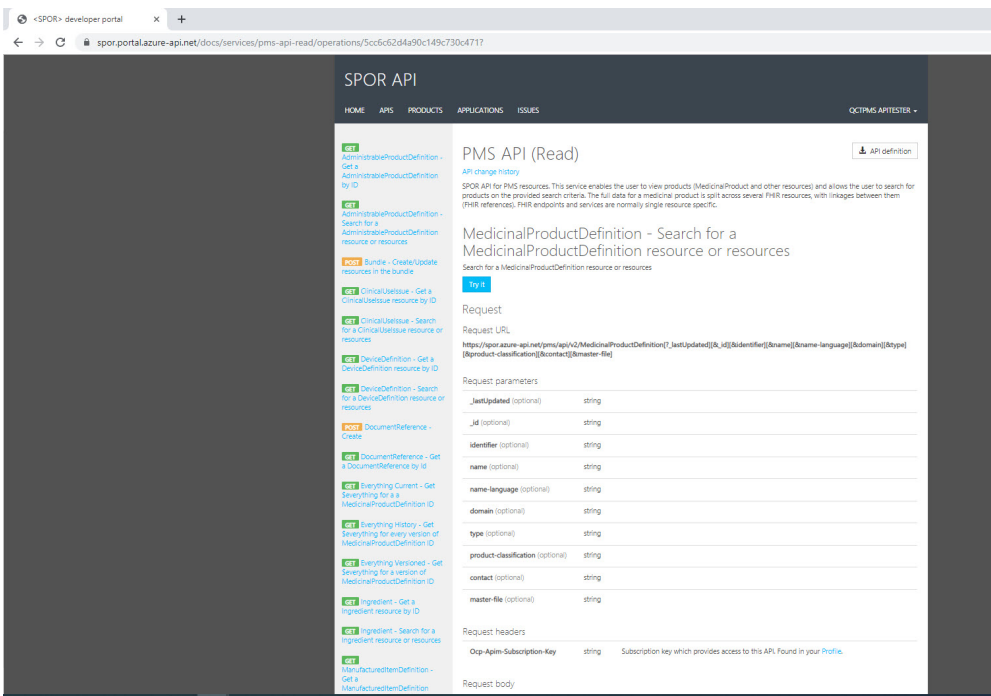
**Step 3:** fill out the form with your details and a valid email address as you will be required to confirm the address through a verification email. Submit the form.

**Step 4:** the system will send you a verification email to the address you provided in the form, follow the link in that email in order to confirm.





As an example, if you look for the operation MedicinalProductDefinition - Search for a MedicinalProductDefinition resource or resources, the corresponding screen shows the essential information of the URL and parameters that can be passed as part of the request.



The same page also contains code samples in 8 common programming languages, which will allow you to get started with your own programmatic integration:

## Code samples

Curl

C#

Java

JavaScript

ObjC

PHP

Python

Ruby

@ECHO OFF

```
curl -v -X GET "https://spor.azure-api.net/pms/api/v2/MedicinalProductDefinition?_lastUpdated={string}&_id={string}&identifier={string}&name={string}&name-language={string}&domain={string}&type={string}&product-classification={string}&contact={string}&master-file={string}"  
-H "Ocp-Apim-Subscription-Key: {subscription key}"  
  
--data-ascii "{body}"
```

You can then click on the button [Try it](#) in order to configure a request to be sent to the server. Make sure that the mandatory header parameter `Ocp-Apim-Subscription-Key` is pre-populated with your API key. Note that as part of the example a second header parameter has been added for the content type of the returned response, by using the `Accept` header name and the value `application/fhir+json`.

After clicking on the button [Send](#), you will see the http response status and the response content filled out by the system.

GET DeviceDefinition - Search for a DeviceDefinition resource or resources  
POST DocumentReference - Create  
GET DocumentReference - Get a DocumentReference by ID  
GET Everything Current - Get Everything for a a MedicinalProductDefinition ID  
GET Everything History - Get Everything for every version of MedicinalProductDefinition ID  
GET Everything Versioned - Get Everything for a version of MedicinalProductDefinition ID  
GET Ingredient - Get a Ingredient resource by ID  
GET Ingredient - Search for a Ingredient resource or resources  
GET ManufacturedItemDefinition - Get a ManufacturedItemDefinition resource by ID  
GET ManufacturedItemDefinition - Search for a ManufacturedItemDefinition resource or resources  
GET MedicinalProductDefinition - Get a MedicinalProductDefinition ID  
GET MedicinalProductDefinition - Search for a MedicinalProductDefinition resource or resources  
GET MedicinalProductDefinition History - Get history of MedicinalProductDefinition ID  
GET MedicinalProductDefinition Version - Get version of MedicinalProductDefinition ID  
GET OperationOutcome - Get a resource by ID  
GET PackagedProductDefinition - Get a PackagedProductDefinition resource by ID  
GET PackagedProductDefinition

**Send**  
 Response status  
 200 OK  
 Response latency  
 3190 ms  
 Response content  

```

Transfer-Encoding: chunked
Request-Context: appId=cid-v1:486e5fda-08d7-41d0-9ae1-8e3d88588b09
X-Request-Id: 743e6b6f-750b-4f59-97a1-c252a7774d26
x-ms-session-token: 0:-1#6158
x-ms-request-charge: 5.65
X-Content-Type-Options: nosniff
Date: Wed, 23 Sep 2020 13:43:48 GMT
X-Powered-By: ASP.NET
Content-Type: application/fhir+json; charset=utf-8

{
  "resourceType": "Bundle",
  "id": "743e6b6f-750b-4f59-97a1-c252a7774d26",
  "meta": {
    "timestamp": "2020-09-23T13:43:48.370370+00:00"
  }
}

```

**Parameters:**  
 type: Value [Remove parameter]  
 product-classification: Value [Remove parameter]  
 contact: Value [Remove parameter]  
 master-file: Value [Remove parameter]  
 + Add parameter

**Headers:**  
 Ocp-Apim-Subscription-Key: ..... [Remove header]  
 Accept: application/fhir+json [Remove header]  
 + Add header

**Authorization:**  
 Subscription key: Primary-9c0e... [x]

**Request URL:**  
 https://spor.azure-api.net/pms/api/v2/MedicinalProductDefinition

**HTTP request:**  
 GET https://spor.azure-api.net/pms/api/v2/MedicinalProductDefinition HTTP/1.1  
 Host: spor.azure-api.net  
 Ocp-Apim-Subscription-Key: .....  
 Accept: application/fhir+json

## SPOR API version 1

The specifications for the SPOR API version 1 support the operations on Referentials (RMS) and Organisations (OMS).

## Registration

In order to have the roles required to access the Production environment, follow the steps:

**Step 1:** Create an account in the self-registration platform <https://register.ema.europa.eu/identityiq/home.html>

**Step 2:** Create a ticket to the EMA Service Desk (<https://servicedesk.ema.europa.eu/>) to request *all the roles that are required to access the SPOR API v1 in the SPOR Production environment*. You do not need to specify the individual roles, the Service Desk knows which ones they are

## Verify your access

In order to verify your access to the SPOR API v1 , you can execute the following request, using your **ECD** account:

### RMS

**Request the details of term with id 100000000013 in list 100000000004**

```
curl -u <your_account_name>:<your_password> -k https://spor.ema.europa.eu/v1/lists/100000000004/terms/100000000013
```

The response was formatted for readability.

## Response

```
<?xml version="1.0" encoding="UTF-8"?>
<term-details xmlns="http://ema.europa.eu/schema/spor" xmlns:spor="http://ema.europa.eu/schema/spor" schema-
version="2.0">
  <controlled-term spor:rowid="20252">
    <term-id id="100000000013">
      <link href="http://spor.ema.europa.eu/v1/lists/100000000004/terms/100000000013" />
    </term-id>
    <term-names>
      <term-name>
        <name translation-status-code="CURRENT" modified-on="2007-08-08T12:09:33Z" lang="en" translation-id="
20006">Veterinary use</name>
      </term-name>
      <term-name>
        <name translation-status-code="CURRENT" modified-on="2010-06-10T09:27:31Z" lang="de" translation-id="
20009">Anwendung am Tier</name>
      </term-name>
    </term-names>
    <short-names>
      <short-name>
        <name translation-status-code="CURRENT" modified-on="2007-08-08T12:09:33Z" lang="en" translation-id="
20007">V</name>
      </short-name>
      <short-name>
        <name translation-status-code="CURRENT" modified-on="2010-06-10T09:27:31Z" lang="de" translation-id="
20010">V</name>
      </short-name>
    </short-names>
    <status code="CURRENT" modified-by="ema" modified-on="2007-08-16T10:22:30Z" spor:rowid="20502" />
    <operational-attributes version-number="5" modified-on="2018-04-05T12:51:35.605Z" created-on="2007-07-27T07:
04:43Z" />
    <visibility code="PUBLIC" />
    <domains>
      <domain id="100000000014" name="Human and Veterinary use" short-name="H&V" status="CURRENT" spor:rowid="
20311">
        <link href="http://spor.ema.europa.eu/v1/lists/100000000004/terms/100000000014" />
      </domain>
    </domains>
    <other-names>
      <other-name>
        <name translation-status-code="CURRENT" modified-on="2010-06-10T09:27:31Z" lang="de" translation-id="
20008">Veterinaer</name>
      </other-name>
    </other-names>
    <terms-link>
      <link href="http://spor.ema.europa.eu/v1/lists/100000000004/terms" />
    </terms-link>
    <terms-summaries-link>
      <link href="http://spor.ema.europa.eu/v1/lists/100000000004/term-summaries" />
    </terms-summaries-link>
    <list-reference id="100000000004" name="Domain" status="CURRENT">
      <link href="http://spor.ema.europa.eu/v1/lists/100000000004" />
    </list-reference>
  </controlled-term>
</term-details>
```

## OMS

Request the details the organisation with id **ORG-100013412**

```
curl -u <your_account_name>:<your_password> -H 'Accept: application/json' -k https://spor.ema.europa.eu/v1
/organisations/ORG-100013412
```

The response was formatted for readability.

## Response

```
{
  "organisation": {
    "schema-version": "2.0",
    "query-timestamp": "2020-07-20T12:12:03.326",
    "query-link": "http://spor.ema.europa.eu/v1/organisations",
    "operational-attributes": {
      "created-on": "2018-11-20T18:13:39.662+01:00",
      "modified-on": "2020-04-20T16:36:58.993+02:00"
    },
  },
  "organisation-id": {
    "id": "ORG-100013412",
    "link": {
      "rel": "self",
      "href": "http://spor.ema.europa.eu/v1/organisations/ORG-100013412"
    }
  },
  "active-request": "false",
  "identifiers": {
    "identifier": {
      "code-system": "100000167446",
      "code-system-name": "OMS Organisation Identifier",
      "code": "ORG-100013412"
    }
  },
  "mappings": null,
  "category-classifications": {
    "category-classification": [
      {
        "category-type": {
          "code-system": "RMS_ID",
          "code-system-name": "Lkp Party Category Type",
          "code": "200000000073",
          "display-name": "Type"
        },
        "category": {
          "code-system": "RMS_ID",
          "code-system-name": "Type",
          "code": "200000000084",
          "display-name": "Regulatory Authority"
        }
      },
      {
        "category-type": {
          "code-system": "RMS_ID",
          "code-system-name": "Lkp Party Category Type",
          "code": "200000000073",
          "display-name": "Type"
        },
        "category": {
          "code-system": "RMS_ID",
          "code-system-name": "Type",
          "code": "200000000086",
          "display-name": "EU Institution/Body/Agency"
        }
      }
    ]
  },
  "status": "ACTIVE",
  "name": "European Medicines Agency",
  "locations": {
    "location": [
      {
        "location-id": {
          "id": "LOC-100018793",
          "link": {
            "href": "http://spor.ema.europa.eu/v1/locations/LOC-100018793"
          }
        }
      }
    ]
  }
}
```

```
    },
    {
      "location-id": {
        "id": "LOC-100020260",
        "link": {
          "href": "http://spor.ema.europa.eu/v1/locations/LOC-100020260"
        }
      }
    },
    {
      "location-id": {
        "id": "LOC-100020264",
        "link": {
          "href": "http://spor.ema.europa.eu/v1/locations/LOC-100020264"
        }
      }
    }
  ]
},
"version-timestamp": "2020-04-20T16:36:58.993+02:00"
}
```