

# Production API and Registration Process

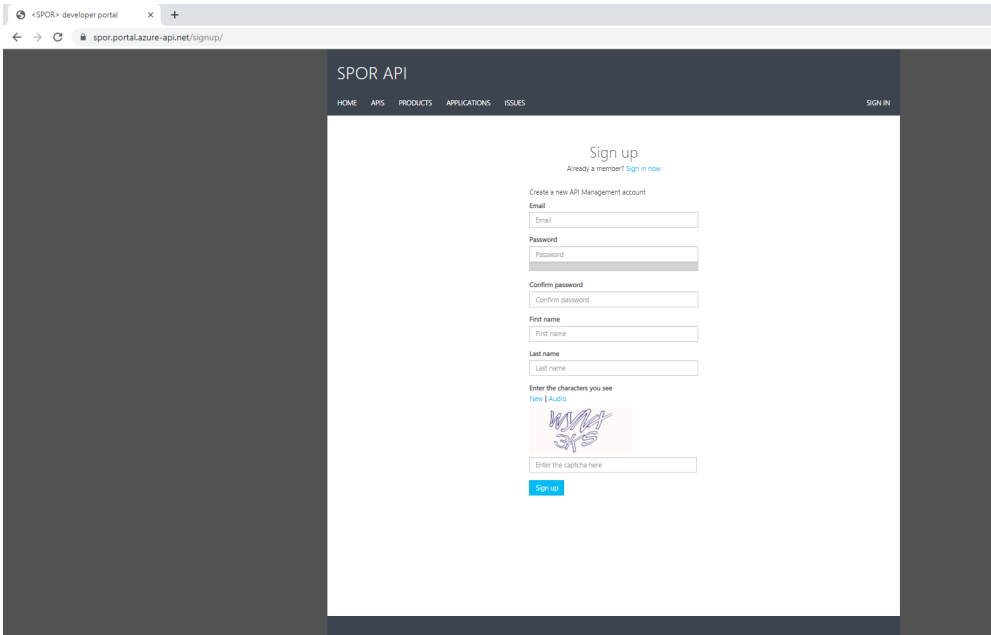
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## API Manager

### 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](#)

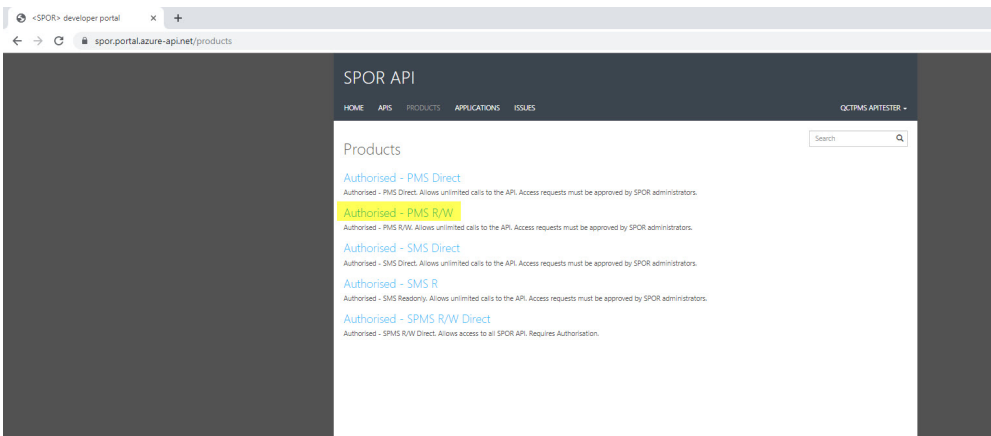


The screenshot shows a web browser window with the URL [spor.portal.azure-api.net/signup/](https://spor.portal.azure-api.net/signup/). The page is titled "SPOR API" and has a navigation menu with "HOME", "APIs", "PRODUCTS", "APPLICATIONS", "ISSUES", and "SIGN IN". The main content area is a "Sign up" form. It includes a link for "Already a member? Sign in now". The form asks to "Create a new API Management account" and contains fields for "Email", "Password", "Confirm password", "First name", "Last name", and a CAPTCHA. A "Sign up" button is 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.

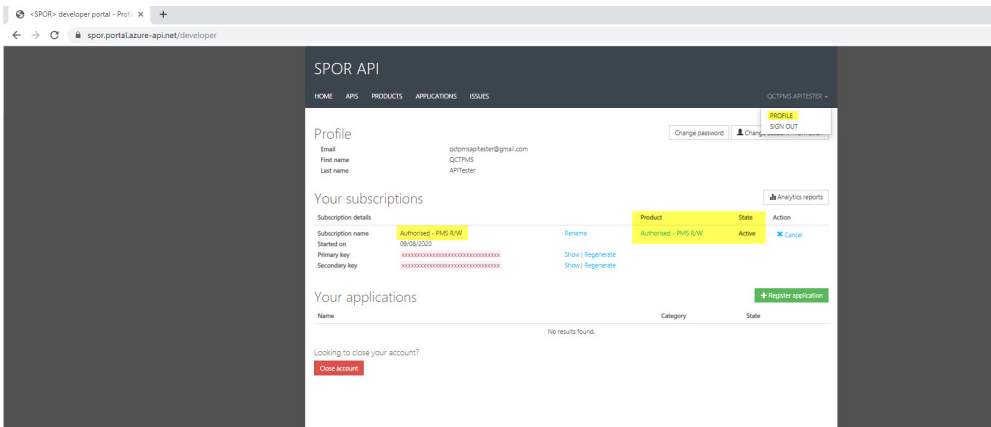
**Step 4:** the system will send you a verification email to the address you provided in the form, follow the link in that email in order to confirm.

**Step 5:** Sign in and navigate to [PRODUCTS](#), then navigate to [Authorised - PMS R/W](#) and in the next screen, click on the button **Add subscription** in order to confirm the request.



The screenshot shows a web browser window with the URL [spor.portal.azure-api.net/products](https://spor.portal.azure-api.net/products). The page is titled "SPOR API" and has a navigation menu with "HOME", "APIs", "PRODUCTS", "APPLICATIONS", "ISSUES", and "OCTIMS ARTESTER". The main content area is titled "Products" and contains a list of API products. The "Authorised - PMS R/W" product is highlighted in yellow. Each product entry includes a title and a brief description.

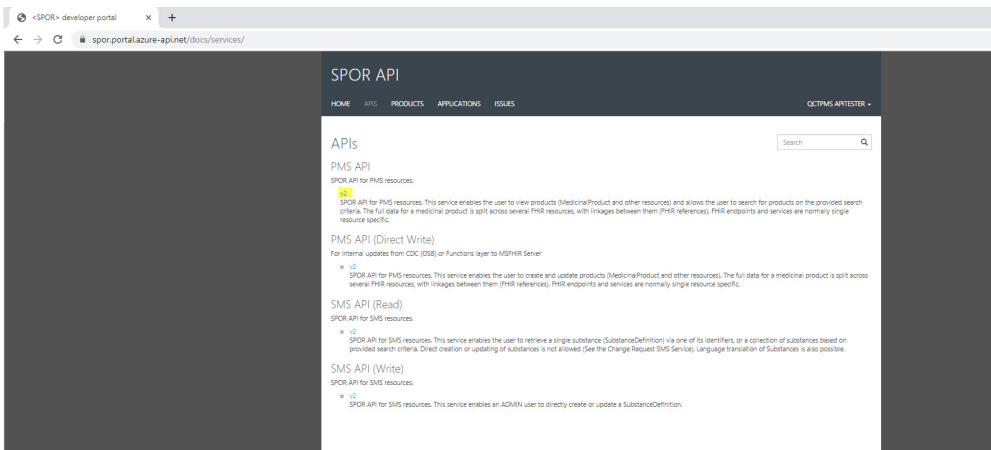
**Step 6:** your request will be analysed and granted by a system administrator. Once it is approved you will received an email confirming this and when you navigate to <Your name> > [PROFILE](#)



That's it, your account and subscription are valid.

## APIs

Before you proceed, make sure you have signed in to <https://spor.portal.azure-api.net/>. You can then navigate to the menu item **APIs** and select any of the relevant API you want to use, **PMS API** as on the screen below:



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 screenshot shows the SPOR API documentation page for the PMS API (Read) endpoint. The page is titled "SPOR API" and "PMS API (Read)". It includes a navigation menu with "HOME", "APIs", "PRODUCTS", "APPLICATIONS", and "ISSUES". The main content area is titled "MedicinalProductDefinition - Search for a MedicinalProductDefinition resource or resources". It features a "Try it" button and a "Request" section with the following details:

- Request URL:** `https://spor.azure-api.net/pms/api/v2/MedicinalProductDefinition?_lastUpdated={string}&_id={string}&identifier={string}&name={string}&name-language={string}&domain={string}&product-classification={string}&contact={string}&master-file={string}`
- Request parameters:**

<code>_lastUpdated</code> (optional)	string
<code>_id</code> (optional)	string
<code>identifier</code> (optional)	string
<code>name</code> (optional)	string
<code>name-language</code> (optional)	string
<code>domain</code> (optional)	string
<code>type</code> (optional)	string
<code>product-classification</code> (optional)	string
<code>contact</code> (optional)	string
<code>master-file</code> (optional)	string
- Request headers:**

<code>Ocp-Apim-Subscription-Key</code>	string	Subscription key which provides access to this API. Found in your <a href="#">Profile</a> .
--	--------	---
- Request body:**

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

Code samples are available for the following languages: 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.

The screenshot shows a REST client interface for the SPOR API. The sidebar on the left lists various endpoints, with the selected one being `GET MedicinalProductDefinition - Search for a MedicinalProductDefinition resource or resources`. The main area is configured for a GET request to `https://spor.azure-api.net/pms/api/v2/MedicinalProductDefinition`. Parameters include `type`, `product-classification`, `contact`, and `master-file`, all with a value of `Value`. Headers include `Accept: application/fhir+json`. The authorization is set to `Subscription key: Primary-9c0e...`. The `Send` button is circled in red. The response status is `200 OK`, and the response content is a JSON object representing a bundle of resources.

```

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

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": "2020-09-23T13:43:48.369376+00:00"
  }
}

```

## 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"
}
```