



PPO's Experience in Supporting WIPO ST.37 through API

Polish Patent Office API

The API of the Polish Patent Office (PPO) is connected to the database of our official collections. It allows users to access complete information on individual IP rights. The public API is available within the Electronic Services Platform of the Polish Patent Office (PUEUP). The public API provides access to the following modules:

- CMUiA – user authorization module (verifies the user's Token)
- eProfile – enables communication between the user and the Office
- eWyszukiwarka – provides access to the Office's public collections
- Statistical information module



PUEUP API Zewnętrzne

Platforma Usług Elektronicznych Urzędu Patentowego RP

Punkty dostępne API



CMUiA

API Zewnętrzne Centralnego Modułu Użytkowników i Autoryzacji.
Dokumentacja: </cmuia/api/doc/external>



eProfil

API Zewnętrzne modułów eProfil i eWsparcie.
Dokumentacja: </eprofil/api/doc/external>
Instrukcja: [Opis techniczny dla programistów](#)



eWyszukiwarka

API Zewnętrzne modułu eWyszukiwarka.
Dokumentacja: </ewyszukiwarka/api/doc/external>
Instrukcja: [Opis techniczny dla programistów](#)
Instruction: [Technical description for programmers](#)



Statystyka

API dostępne do informacji statystycznych.
Dokumentacja: <https://uprp.gov.pl/pl/o-urzedzie/statystyki/api-statystyk>

Implementation of WIPO ST.37 Standard

When implementing the **ST.37 standard** at the Polish Patent Office and making it available through our API service, we relied on the data already existing in our internal resources — these datasets were easily accessible via the **eSearch module** of the API.

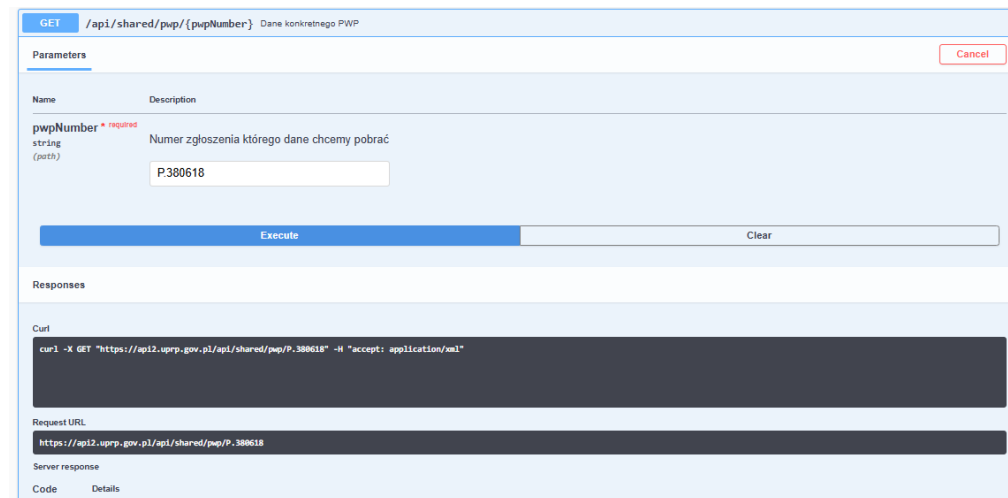
The **public API** is available to registered clients of the **Electronic Services Platform of the Polish Patent Office (PUEUP)** after generating an **API Key**, which is used to create a **JWT Token** for secure access.

External			^
GET	/ewyszukiwarka/api/external/attributes	Lista atrybutów pogrupowana według kategorii	▼ 🔒
GET	/ewyszukiwarka/api/external/collections	Lista kolekcji	▼ 🔒
POST	/ewyszukiwarka/api/external/deterministic-search	Wyszukiwanie zaawansowane	▼ 🔒
GET	/ewyszukiwarka/api/external/federated-register/PN/{pwpNumber}	Lista atrybutów pogrupowana według kategorii zwrócona w postaci XML	▼ 🔒
GET	/ewyszukiwarka/api/external/federated-register/PN/{pwpNumber}.js	Lista atrybutów pogrupowana według kategorii zwrócona w postaci JSONP	▼ 🔒
GET	/ewyszukiwarka/api/external/pwp-types	Lista typów PWP	▼ 🔒
GET	/ewyszukiwarka/api/external/pwp/{pwpNumber}	Dane konkretnego PWP	▼ 🔒
GET	/ewyszukiwarka/api/external/pwps-changed-since/{since}	Dane PWP zmienione od dnia	▼ 🔒
GET	/ewyszukiwarka/api/external/search-bibliographics-results	Dane bibliograficzne dla zadanych numerów i dat publikacji BUP i WUP	▼ 🔒
GET	/ewyszukiwarka/api/external/search-results/{criteriaId}	Dane PWP wyszukiwania zaawansowanego	▼ 🔒
POST	/ewyszukiwarka/api/external/v2/deterministic-search	Wyszukiwanie zaawansowane (v2) - obsługa nawiasów	▼ 🔒

Preparing for the Implementation of a New API Endpoint

In preparation for the implementation of a new endpoint in the **Polish Patent Office (PPO) API**, we analyzed the data collected across all collections available in the Office's Search system and through the API.

We verified **data completeness** and identified the **information required for publication in the Authority File**.



GET /api/shared/pwp/{pwpNumber} Dane konkretnego PWP

Parameters

Name	Description
pwpNumber * required	Numer zgłoszenia którego dane chcemy pobrać
string (path)	
	P.380618

Execute Clear

Responses

Curl

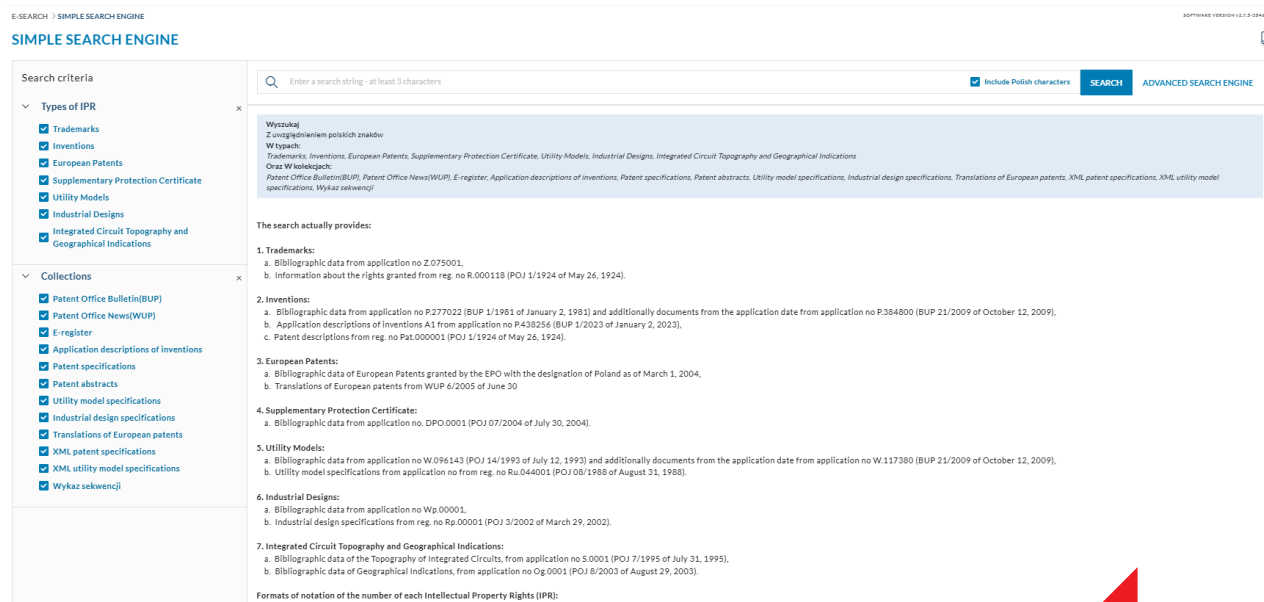
```
curl -X GET "https://api2.uprp.gov.pl/api/shared/pwp/P.380618" -H "accept: application/xml"
```

Request URL

```
https://api2.uprp.gov.pl/api/shared/pwp/P.380618
```

Server response

Code	Details
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E-SEARCH > SIMPLE SEARCH ENGINE

SIMPLE SEARCH ENGINE

Search criteria

- Types of IPR
 - ☒ Trademarks
 - ☒ Inventions
 - ☒ European Patents
 - ☒ Supplementary Protection Certificate
 - ☒ Utility Models
 - ☒ Industrial Designs
 - ☒ Integrated Circuit Topography and Geographical Indications
- Collections
 - ☒ Patent Office Bulletin(BUP)
 - ☒ Patent Office News(WUP)
 - ☒ E-register
 - ☒ Application descriptions of inventions
 - ☒ Patent abstracts
 - ☒ Utility model specifications
 - ☒ Industrial design specifications
 - ☒ Translations of European patents
 - ☒ XML patent specifications
 - ☒ XML utility model specifications
 - ☒ Wykaz sekwencji

Enter a search string - at least 3 characters

Include Polish characters SEARCH ADVANCED SEARCH ENGINE

Wyszukał
Z uwzględnieniem polskich znaków
W typach:
Trademarks, Inventions, European Patents, Supplementary Protection Certificate, Utility Models, Industrial Designs, Integrated Circuit Topography and Geographical Indications
Oraz Wskazanych:
Patent Office Bulletin(BUP), Patent Office News(WUP), E-register, Application descriptions of inventions, Patent specifications, Patent abstracts, Utility model specifications, Industrial design specifications, Translations of European patents, XML patent specifications, XML utility model specifications, Wykaz sekwencji

The search actually provides:

- Trademarks:
 - a. Bibliographic data from application no Z.075001,
 - b. Information about the rights granted from reg. no R.000118 (POJ 1/1924 of May 26, 1924).
- Inventions:
 - a. Bibliographic data from application no P.277022 (BUP 1/1981 of January 2, 1981) and additionally documents from the application date from application no P.384800 (BUP 21/2009 of October 12, 2009),
 - b. Application descriptions of Inventions A1 from application no P.438256 (BUP 1/2023 of January 2, 2023),
 - c. Patent descriptions from reg. no P.000001 (POJ 1/1924 of May 26, 1924).
- European Patents:
 - a. Bibliographic data of European Patents granted by the EPO with the designation of Poland as of March 1, 2004,
 - b. Translations of European patents from WUP 6/2005 of June 30
- Supplementary Protection Certificate:
 - a. Bibliographic data from application no. DPO.0001 (POJ 07/2004 of July 30, 2004).
- Utility Models:
 - a. Bibliographic data from application no W.096143 (POJ 14/1993 of July 12, 1993) and additionally documents from the application date from application no W.117380 (BUP 21/2009 of October 12, 2009),
 - b. Utility model specifications from application no from reg. no Ru.044001 (POJ 08/1988 of August 31, 1988).
- Industrial Designs:
 - a. Bibliographic data from application no Wp.00001,
 - b. Industrial design specifications from reg. no Rp.00001 (POJ 3/2002 of March 29, 2002).
- Integrated Circuit Topography and Geographical Indications:
 - a. Bibliographic data of the Topography of Integrated Circuits, from application no S.0001 (POJ 7/1995 of July 31, 1995),
 - b. Bibliographic data of Geographical indications, from application no Og.0001 (POJ 8/2003 of August 29, 2003).

Formats of notation of the number of each Intellectual Property Rights (IPR):



PATENT OFFICE
OF THE REPUBLIC
OF POLAND

XML Structure Analysis and Field Mapping

We performed an **initial field mapping** to the **Authority File (AF)** structure (highlighted fields correspond to AF elements), which allowed us to prepare the **technical documentation** for the contractor.

/ewyszukiwarka/api/external/pwp/{pwpNumber}

During the documentation phase, we **collaborated with WIPO** to review and clarify all cases that raised doubts, ensuring that the final file contained all required fields and was **fully compliant with the DTD specification**.

GET

/ewyszukiwarka/api/external/pwp/{pwpNumber} Dane konkretnego PWP

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE authority-file SYSTEM "ST37AuthorityFile_V2-2.dtd">
<authority-file country="PL" date-produced="20240126">
  <authority-file-definition grouped-af-indicator="no" update-af-
category="incremental">
    <document-kind-code-list>
      <document-kind-code-definition>
        <kind>B1</kind>
        <document-kind-code-description>Patent</document-kind-code-description>
      </document-kind-code-definition>
    </document-kind-code-list>
    <data-coverage>
      <publication-date-range start-date="20240129" end-date="20240129"/>
      <publication-number-range begin-range-number="244461" end-range-
number="244461"/>
      <kind-code-coverage>
        <kind>B1</kind>
        <document-total-quantity>1</document-total-quantity>
      </kind-code-coverage>
    </data-coverage>
    </authority-file-definition>
    <authority-file-entry>
      <publication-reference>
        <document-id>
          <country>PL</country>
          <doc-number>244461</doc-number>
          <kind>B1</kind>
          <date>20240129</date>
        </document-id>
        </publication-reference>
        <application-reference>
          <country>PL</country>
          <doc-number>438333</doc-number>
          <filing-date>20200106</filing-date>
        </application-reference>
      </priority-claims>
      <priority-claim priority-claim-kind="national" sequence="1">
        <country>CN</country>
        <doc-number>201910009504.2</doc-number>
        <kind></kind>
        <date>20190104</date>
      </priority-claim>
    </priority-claims>
  </authority-file-entry>
</authority-file>
```

```
<root>
  <pl-patent-document lang="pl" country="PL" doc-number="244461"
kind="B1" date-publ="20240129">
    <bibliographic-data>
      <publication-reference>
        <document-id>
          <country>PL</country>
          <doc-number>438333</doc-number>
          <kind>A1</kind>
          <date>20220822</date>
        </document-id>
        </publication-reference>
        <publication-reference>
          <document-id>
            <country>PL</country>
            <doc-number>244461</doc-number>
            <kind>B1</kind>
            <date>20240129</date>
          </document-id>
          </publication-reference>
          <classification-ipc>
            ...
          </classification-ipc>
          <classification-cpc>
            ...
          </classification-cpc>
          <classifications-ipc>
            ...
          </classifications-ipc>
          <application-reference>
            <document-id>
              <country>PL</country>
              <doc-number>438333</doc-number>
              <kind>A1</kind>
              <date>20200106</date>
            </document-id>
            <other-documents>
              ...
            </other-documents>
          </application-reference>
          <priority-claims>
            <priority-claim kind="national" sequence="1">
              <country>CN</country>
              <doc-number>201910009504.2</doc-number>
              <date>20190104</date>
            </priority-claim>
          </priority-claims>
          <parties>
            ...
          </parties>
        </pl-patent-document>
      </root>
```

Methodology Verification Prior to Endpoint Implementation

As the next stage in preparing for the **endpoint deployment**, we focused on **verifying the adopted methodology and assumptions**.

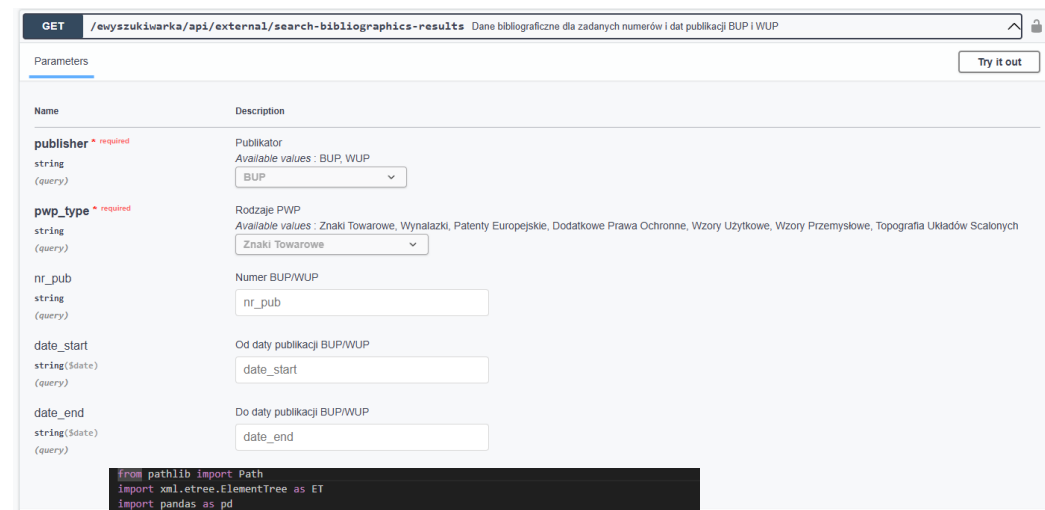
To achieve this, we developed custom **scripts** that extracted data from the endpoint:

`/ewyszukiwarka/api/External/search-bibliographics-results`

The scripts retrieved records for **all publication types** issued during the **test period**, including publications from the **Patent Office Bulletin (BUP)** and the **Patent Office News (WUP)**.

Data was collected using **PowerShell scripts** and then processed and converted into the required format using **Python scripts**.

The methodology was tested on a **one-month data window** to confirm its reliability before the endpoint implementation.



GET /ewyszukiwarka/api/external/search-bibliographics-results Dane bibliograficzne dla zadanych numerów i dat publikacji BUP i WUP

Parameters

Name	Description
publisher * required string (query)	Publikator Available values: BUP, WUP <input type="text" value="BUP"/>
pwp_type * required string (query)	Rodzaje PWP Available values: Znaki Towarowe, Wynalazki, Patenty Europejskie, Dodatkowe Prawa Ochronne, Wzory Użytkowe, Wzory Przemysłowe, Topografia Układów Scalonych <input type="text" value="Znaki Towarowe"/>
nr_pub string (query)	Numer BUPWUP <input type="text" value="nr_pub"/>
date_start string(Date) (query)	Od daty publikacji BUPWUP <input type="text" value="date_start"/>
date_end string(Date) (query)	Do daty publikacji BUPWUP <input type="text" value="date_end"/>

Try it out

```
from pathlib import Path
import xml.etree.ElementTree as ET
import pandas as pd
import os
from tqdm import tqdm
from datetime import datetime

parent_folder = Path(__file__).resolve().parent.parent
result_folder = parent_folder / 'results3'

output_csv_path = 'Authority_file.csv'

def convert_to_utf8(file_path, temp_file_path):
    with open(file_path, 'r', encoding='windows-1250', errors='replace') as file:
        content = file.read()
    with open(temp_file_path, 'w', encoding='utf-8') as file:
        file.write(content)

def process_xml_file(file_path, temp_file_path):
    try:
        convert_to_utf8(file_path, temp_file_path)

        tree = ET.parse(temp_file_path)
        root = tree.getroot()

        data = []

        for patent_document in root.findall('.//pl-patent-document'):
            publication_references = patent_document.findall('.//bibliographic-data/publication-
            application_data = patent_document.find('.//bibliographic-data/application-reference
            priority_claims = patent_document.findall('.//bibliographic-data/priority-claims/pr

            for publication_data in publication_references:
                publication_row = {
                    "publication-country": publication_data.find('country').text if publication_
                    "publication-doc-number": publication_data.find('doc-number').text if public
                    "publication-kind": publication_data.find('kind').text if publication_data.f
                    "publication-date": publication_data.find('date').text if publication_data.f
                    "application-country": application_data.find('country').text if applicatio
                    "application-doc-number": application_data.find('doc-number').text if applic
                    "application-filing-date": application_data.find('date').text if applicatio
                }

                if publication_row["publication-date"]:
                    pub_date = datetime.strptime(publication_row["publication-date"], "%Y%m%d")
                    if not (datetime(2025, 1, 1) <= pub_date <= datetime(2025, 1, 31)):
                        continue

                if not publication_row["publication-doc-number"].startswith("A"):
                    if priority_claims:
```

Authority File Generation and Final Deployment

After confirming the methodology, we used our scripts to **generate the Authority File for the entire year** and submitted it to WIPO for verification.

Only after receiving confirmation of **full compliance with the DTD specification** we proceed to **publish and make the new API endpoint available**.

The endpoint is **available to the Office's partners** through a **secured connection** established with **authorized IP addresses** only.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE authority-file SYSTEM "ST37AuthorityFile_V2-2.dtd">
<authority-file country="PL" date-produced="20251016">
  <authority-file-definition grouped-af-indicator="no" update-af-category="incremental">
    <document-kind-code-list>
      <document-kind-code-definition>
        <kind>A1</kind>
        <document-kind-code-description>Patent application</document-kind-code-description>
        <kind>A3</kind>
        <document-kind-code-description>Application for Additional Patent</document-kind-code-description>
        <kind>B1</kind>
        <document-kind-code-description>Patent</document-kind-code-description>
        <kind>B3</kind>
        <document-kind-code-description>Additional Patent</document-kind-code-description>
        <kind>T1</kind>
        <document-kind-code-description>Translation of claims of a European patent</document-kind-code-description>
        <kind>T2</kind>
        <document-kind-code-description>Translation of corrected claims of a European patent application</document-kind-code-description>
        <kind>T3</kind>
        <document-kind-code-description>Translation of a European patent specification</document-kind-code-description>
        <kind>T4</kind>
        <document-kind-code-description>Corrected translation of a European patent specification</document-kind-code-description>
        <kind>T5</kind>
        <document-kind-code-description>Translation of a European patent amended after opposition</document-kind-code-description>
        <kind>T6</kind>
        <document-kind-code-description>Translation of a European patent limited by the proprietor - European Patent Convention</document-kind-code-description>
        <kind>U1</kind>
        <document-kind-code-description>Application for a utility model</document-kind-code-description>
        <kind>Y1</kind>
        <document-kind-code-description>Utility Model</document-kind-code-description>
      </document-kind-code-definition>
    </document-kind-code-list>
    <data-coverage>
      <publication-date-range start-date="20240103" end-date="20241230"/>
      <publication-number-range begin-range-number="073261" end-range-number="4411279"/>
      <kind-code-coverage>
        <kind>A1</kind>
        <document-total-quantity>3611</document-total-quantity>
        <kind>A3</kind>
        <document-total-quantity>9</document-total-quantity>
        <kind>B1</kind>
        <document-total-quantity>2044</document-total-quantity>
        <kind>B3</kind>
        <document-total-quantity>3</document-total-quantity>
        <kind>T1</kind>
        <document-total-quantity>0</document-total-quantity>
        <kind>T2</kind>
        <document-total-quantity>0</document-total-quantity>
        <kind>T3</kind>
        <document-total-quantity>12321</document-total-quantity>
        <kind>T4</kind>
        <document-total-quantity>73</document-total-quantity>
        <kind>T5</kind>
        <document-total-quantity>328</document-total-quantity>
        <kind>T6</kind>
        <document-total-quantity>8</document-total-quantity>
        <kind>U1</kind>
        <document-total-quantity>617</document-total-quantity>
        <kind>Y1</kind>
        <document-total-quantity>474</document-total-quantity>
      </kind-code-coverage>
    </data-coverage>
  </authority-file-definition>
</authority-file-entry>
<publication-reference>
  <document-id>
```

New API Endpoint – Authority File Download

The newly implemented endpoint provides direct access to the **Authority File** in XML format.

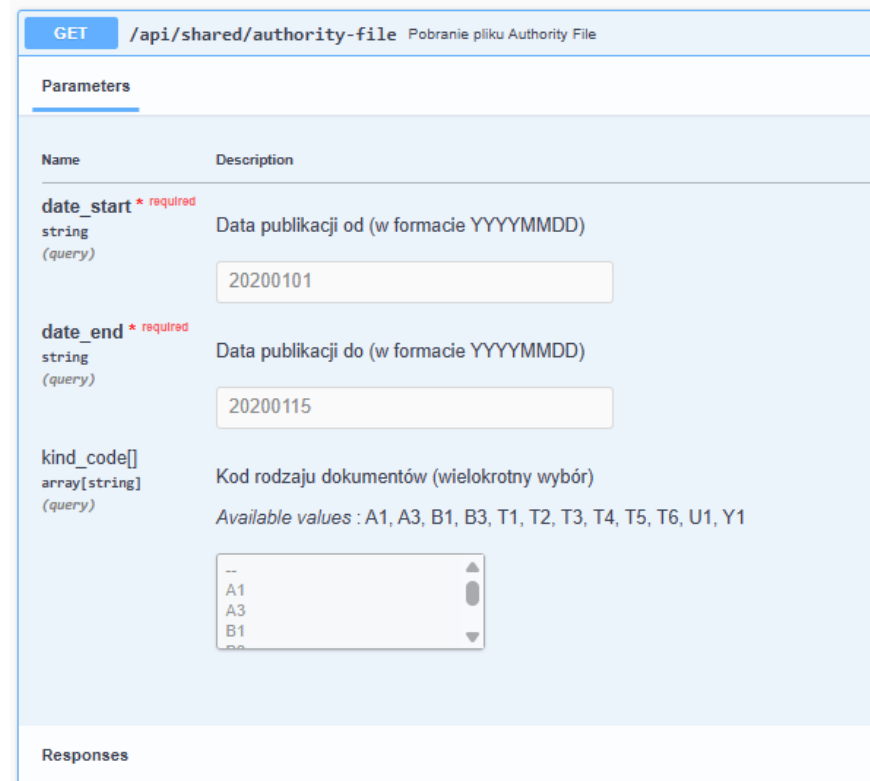
Users can specify:

- `date_start` – start of the publication period (format: YYYYMMDD)
- `date_end` – end of the publication period (format: YYYYMMDD)
- `kind_code[]` – list of document types (multiple selection possible)

Example request:

GET /api/shared/authority-file?date_start=20200101&date_end=20200115&kind_code=A1

This endpoint enables automatic retrieval of publication data from the Polish Patent Office collections for the selected time range and document types, in full compliance with WIPO ST.37 and DTD requirements.



GET /api/shared/authority-file Pobranie pliku Authority File

Parameters

Name	Description
date_start * required string (query)	Data publikacji od (w formacie YYYYMMDD)
date_end * required string (query)	Data publikacji do (w formacie YYYYMMDD)
kind_code[] array[string] (query)	Kod rodzaju dokumentów (wielokrotny wybór) Available values : A1, A3, B1, B3, T1, T2, T3, T4, T5, T6, U1, Y1

Responses

Next Steps – Upcoming Enhancements

As part of the next development phase, we plan to implement the optional ST.37 elements, which are required under the **PCT Minimum Documentation** standard from **January 2026**.

This extension will **not change the API endpoint interface** - it will only consist of adding the following additional elements to the XML structure:

- exception-code
- searchable-description-code
- searchable-claims-code
- searchable-abstract-code

These fields will provide exception handling and text-searchability indicators, ensuring **full compliance with WIPO / PCT requirements**.

Thank you for your attention

Contact

Wojciech Borawski

Senior Specialist

IT Department

Polish Patent Office (PPO)

 Wojciech.Borawski@uprp.gov.pl