Documents Download Hyperlink .................................................. Error! Bookmark not defined.
## PTAB SERVICES OVERVIEW

### BACKGROUND

PTAB Services is a RESTful API that will provide a client user interface for browsing the USPTO Patent Trial and Appeal Board publicly available documents data, formulating queries, and requesting one-time bulk downloads. Furthermore, it will allow developers to take advantage of custom search syntax to develop their own applications.

### WHO IS PTAB SERVICES FOR?

PTAB Services is designed for developers and technical users worldwide to publish their inventions for international use and adoption. It is open to third party developers inside and outside of government, so that they can directly benefit from this data, by making and using their own apps. PTAB is a publicly accessible system that requires no identification or authentication by the end users prior to gaining access to the services. API keys are also not required to use this service.

This document provides an overview of the features of PTAB Services and how it can be used to access patent products.
GETTING STARTED

WHAT IS SWAGGER GET METHOD?

GET is an HTTP request method that reads and retrieves data. Multiple requests will have the same result as a single request. This means that GET cannot modify any USPTO bulk data products.

PTAB Services has eight GETs as defined below. These GETs are from the PTAB API Swagger documentation at https://ptabdata.uspto.gov/ptab-api/swagger/index.html. A client application using the PTAB API has also been developed and is available at https://ptabdataui.uspto.gov/#/introduction.

![PTAB AIA Trials REST API](image)

**Figure 1: PTAB API Swagger Documentation**
SWAGGER GET INSTRUCTIONS

First, click **GET** button to view *Implementation Notes*. This will allow you to search and retrieve trials and associated documents. Second, enter value input into **parameter** field if applicable. Third, click **Try it Out** button for a return response.

RESPONSE FORMAT

All API inputs and outputs are in JavaScript Object Notation (JSON) format. JSON is an open standard format that uses human-readable text to transmit data objects consisting of attribute–value pairs.

HTTP RESPONSE STATUS CODES

- **200** – Success. The API call was successful.
- **400** – Bad Request. The API was not able to process request due to user error.
- **401**- Unauthorized. Authentication is required and has not been provided. This could mean that you may not have necessary credentials.
- **403** – Forbidden. The request was valid, but the server is refusing to respond.
- **404** – Not Found. The requested resource could not be found, but could be available in the future.
- **500** – Failure. Internal server error is given when an unexpected condition is encountered.

GET INPUT PARAMETERS MAPPING

The table below includes the available input parameters fields with descriptions and examples for PTAB API GETs. Note that the string data type includes various words or characters.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required /Optional</th>
<th>Data Type</th>
<th>Example</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Optional</td>
<td>Integer</td>
<td>1</td>
<td>Document number is a unique numeric identifier.</td>
</tr>
<tr>
<td>filingDateTime</td>
<td>Optional</td>
<td>String</td>
<td>2016-01-01T22:00:14</td>
<td>Date when document was filed.</td>
</tr>
<tr>
<td>Parameter</td>
<td>Required/Optional</td>
<td>Data Type</td>
<td>Example</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------</td>
<td>-----------</td>
<td>---------</td>
<td>-------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>filingDateTimeFrom</td>
<td>Optional</td>
<td>String</td>
<td>2016-01-04</td>
<td>Date document was filed on or after given date.</td>
</tr>
<tr>
<td>filingDateTimeTo</td>
<td>Optional</td>
<td>String</td>
<td>2016-02-04</td>
<td>Date document was filed on or before given date.</td>
</tr>
<tr>
<td>filingParty</td>
<td>Optional</td>
<td>String</td>
<td>Petitioner</td>
<td>Party who filed the document: Petitioner, Patent Owner, or Potential Patent Owner</td>
</tr>
<tr>
<td>documentNumber</td>
<td>Optional</td>
<td>Integer</td>
<td>17</td>
<td>Filters documents by page number sequence or exhibit numbers. Certain trials have unique document numbers. Paper numbers are sequential and begin with 1. Exhibit numbers are four digits. Petitioners file exhibits using 1000s. Patent Owners file exhibits using 2000s. PTAB file exhibits using 3000s.</td>
</tr>
<tr>
<td>sizeInBytes</td>
<td>Optional</td>
<td>Integer</td>
<td>350686</td>
<td>Document size in bytes.</td>
</tr>
<tr>
<td>trialNumber</td>
<td>Optional</td>
<td>String</td>
<td>IPR2015-00158</td>
<td>Trial number format is TTTYYYY-XXXX. TTT represents the type of trial: Inter Partes Review (IPR), Covered Business Method (CBM), Post Grant Review (PGR), Derivation Proceeding (DER). YYYY represents the year and XXXX are sequence numbers.</td>
</tr>
</tbody>
</table>
### AIA TRIAL INPUT PARAMETERS TABLE

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required/Optional</th>
<th>Data Type</th>
<th>Example</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>trialNumber</td>
<td>Optional</td>
<td>String</td>
<td>IPR2016-00037</td>
<td>See AIA Trial Documents Input Parameters Table</td>
</tr>
<tr>
<td>Parameter</td>
<td>Required/Optional</td>
<td>Data Type</td>
<td>Example</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------</td>
<td>-----------</td>
<td>--------------------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>applicationNumber</td>
<td>Optional</td>
<td>String</td>
<td>A) 01/ - 14/ - or nonprovisional applications (utility, plant, and reissue)</td>
<td>Application number for trials. An application number includes a two digit</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B) 60/ and 61/ - for provisional applications;</td>
<td>series code followed by a six digit serial number which is assigned by the</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C) 90/ - for ex parte reexamination proceedings;</td>
<td>USPTO.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>D) 95/ - for inter partes reexamination proceedings; and</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>E) 96/ - for supplemental examination proceedings and resulting <em>ex parte</em> reexamination</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>proceedings.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>patentNumber</td>
<td>Optional</td>
<td>String</td>
<td>8,960,210 Flexible umbrella systems</td>
<td>Patent number for trials. All patent number numbers must be seven characters</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8,939,163 Umbrella anti-inversion apparatus</td>
<td>in length.</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required/Optional</th>
<th>Data Type</th>
<th>Example</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>filingDate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>filingDateFrom</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>filingDateTo</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>accordedFilingDate</td>
<td>Optional</td>
<td>Date</td>
<td>8,783,275 Bottom-triggering wind safety umbrella</td>
<td>Date trial filing is accorded in yyyy-mm-dd format. The output of this field is collected from parameter values in accordedFilingDateFrom and accordedFilingDateTo fields.</td>
</tr>
<tr>
<td>accordedFilingDateFrom</td>
<td>Optional</td>
<td>Date</td>
<td></td>
<td>Date that trial filing is accorded on or after in yyyy-mm-dd format.</td>
</tr>
<tr>
<td>accordedFilingDateTo</td>
<td>Optional</td>
<td>Date</td>
<td></td>
<td>Date that trial filing is accorded on or before in yyyy-mm-dd format.</td>
</tr>
<tr>
<td>institutionDecisionDate</td>
<td>Optional</td>
<td>Date</td>
<td></td>
<td>Date that trial's institution decision is made in yyyy-mm-dd format. The output of this field is collected from parameter values in institutionDecisionDateFrom and institutionDecisionDateTo fields.</td>
</tr>
</tbody>
</table>

...
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required/Optional</th>
<th>Data Type</th>
<th>Example</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>institutionDecisionDateFrom</td>
<td>Optional</td>
<td>Date</td>
<td></td>
<td>Date that a trial's institution decision is made on and after in yyyy-mm-dd format.</td>
</tr>
<tr>
<td>institutionDecisionDateTo</td>
<td>Optional</td>
<td>Date</td>
<td></td>
<td>Date that a trial's institution decision is made on and before in yyyy-mm-dd format.</td>
</tr>
<tr>
<td>finalDecisionDate</td>
<td>Optional</td>
<td>Date</td>
<td></td>
<td>Date that a trial's final decision is made in yyyy-mm-dd format. The output of this field is collected from parameter values in finalDecisionDateFrom and finalDecisionDateTo fields.</td>
</tr>
<tr>
<td>finalDecisionDateFrom</td>
<td>Optional</td>
<td>Date</td>
<td></td>
<td>Date that a trial's final decision is made on and after in yyyy-mm-dd format.</td>
</tr>
<tr>
<td>finalDecisionDateTo</td>
<td>Optional</td>
<td>Date</td>
<td></td>
<td>Date that a trial's final decision is made on and before in yyyy-mm-dd format.</td>
</tr>
<tr>
<td>lastModifiedDatetime</td>
<td></td>
<td></td>
<td></td>
<td>See AIA Trial Documents Input Parameters Table.</td>
</tr>
<tr>
<td>lastModifiedDateFrom</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>lastModifiedDateTo</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>limit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>offset</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>sort</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Use this GET to retrieve all PTAB trial documents metadata. Inputting values in parameter fields is optional because document metadata will be returned by default. However, parameters fields are useful for limiting results. Below example illustrates the default JSON output for this GET.

```
{
  "metadata" : {
    "limit" : 25,
    "offset" : 0,
    "count" : 342361,
    "links" : [ {
      "rel" : "self",
      "href" : "https://ptabdata.uspto.gov/ptab-api/documents"
    }, {
      "rel" : "download",
      "href" : "https://ptabdata.uspto.gov/ptab-api/documents.zip"
    } ]
  },
  "results" : [ {
    "documentNumber" : "69",
    "title" : "Patent Owner's Notice of Appeal",
    "filingDateTime" : "2014-03-26T14:20:37",
    "lastModifiedDate" : "2014-03-26T14:20:37",
    "filingParty" : "patent_owner",
    "sizeInBytes" : 85060,
    "trialNumber" : "CBM2012-00002",
    "mediaType" : "application/pdf",
    "id" : 1,
    "type" : "notice of appeal",
    "links" : [ {
      "rel" : "self",
      "href" : "https://ptabdata.uspto.gov/ptab-api/documents/1"
    }, {
      "rel" : "download",
      "href" : "https://ptabdata.uspto.gov/ptab-api/documents/1/native"
    }, {
      "rel" : "trial",
      "href" : "https://ptabdata.uspto.gov/ptab-api/trials/CBM2012-00002"
    } ]
  }]
}
```

As you can see the returned metadata contains parameters: `limit`, `offset`, `count`, and `links`. Limit parameter represents the number of results displayed on a page, the default is 25. Offset parameter specifies the first entry to return from a collection. The offset parameter is most
often used in conjunction with limit parameter to page through a dataset. It’s the number of records into a dataset that you want to start, indexed at 0.

The count parameter reflects what is satisfied from URL. Let’s see this in action.

First, enter value 1279 in the *id* field. Second click the *Try it Out* button.

The browser’s URL returns the count for the entered value along with metadata results.

![Figure 3: Input Value](https://ptabdata.uspto.gov/ptab-api/documents?id=1279)

The links parameter contains the self-linking URL for GET and download link. Below terms are integral to understanding PTAB API GETs outputs. Note id 1279 refers to example above.

- **rel: self** – means relationship. In this case, it’s a self-referencing hyperlink.
- **rel: download** – hyperlink to download id 1279 (title: Exhibit 1008 - Claim Construction Order) document to your computer.
- **rel: trial** – trial information associated with id 1279 (trial number: CBM2014-00090).
- **href** – is a complete URL that uniquely defines the resource.

**DOWNLOAD DOCUMENTS ZIP FILE – GET /DOCUMENTS.ZIP**

Use this GET to download hundreds of documents into one zip file. Currently there is a maximum of 100 documents available for download. Parameters fields are optional, but are useful for limiting results. The zip file will include documents displayed in current page.

Let’s use the trial number CBM2014-00090 associated with document id 1279 as an example.

![Request URL](https://ptabdata.uspto.gov/ptab-api/documents.zip?trialNumber=CBM2014-00090)

**Response Body**

`Download documents.zip?trialNumber=CBM2014-00090`

**Response Code**

200

**Figure 5: Returned Response**

Now unzip files to download documents for this id. In the example below there are 25 documents downloaded from the zip file.
SEARCH CERTAIN TRIAL DOCUMENTS – GET /DOCUMENTS/{ID}

Use this GET to search for documents pertaining to certain trials. An id value is required for a return response. An error message will be returned if the value cannot be found. You can extract this value from GET/documents. The returned response is similar to GET/documents. The difference is that it returns subtree data starting from a particular tree node.
DOWNLOAD SINGLE ZIP FILE – GET /DOCUMENTS/{ID}/NATIVE

Use this GET to download documents into one zip file as specified by the parameters. An id value is required to download file. See return response example below. You can also extract this request URL from GET/documents.

Request URL
https://ptabdata.uspto.gov/ptab-api/documents/1279/native

Response Body
Download native

Response Code
200

SEARCH TRIALS BY TRIAL NUMBER – GET /TRIALS/{TRIALNUMBER}/DOCUMENTS
Use this GET to search for trials by their trial numbers. A trial number value is required to retrieve trial information. Parameters fields are optional.

However, they are useful for selecting a subset of documents. For example, documents filed within a particular timeframe or those filed by Petitioner only. Let’s use trial number IPR2015-00698 as an example.

```
{
  "metadata": {
    "limit": 116,
    "offset": 0,
    "count": 116,
    "links": [
      {
        "rel": "self",
        "href": "https://ptabdata.uspto.gov/ptab-api/trials/IPR2015-00698/documents"
      },
      {
        "rel": "documents-download",
        "href": "https://ptabdata.uspto.gov/ptab-api/trials/IPR2015-00698/documents.zip"
      },
      {
        "rel": "trial",
        "href": "https://ptabdata.uspto.gov/ptab-api/trials/IPR2015-00698"
      }
    ],
    "results": [
      {
        "metadata": {
          "limit": 116,
          "offset": 0,
          "count": 116,
          "links": [
            {
              "rel": "self",
              "href": "https://ptabdata.uspto.gov/ptab-api/trials/IPR2015-00698/documents"
            },
            {
              "rel": "documents-download",
              "href": "https://ptabdata.uspto.gov/ptab-api/trials/IPR2015-00698/documents.zip"
            },
            {
              "rel": "trial",
              "href": "https://ptabdata.uspto.gov/ptab-api/trials/IPR2015-00698"
            }
          ],
          "results": [
            {
              "metadata": {
                "limit": 116,
                "offset": 0,
                "count": 116,
                "links": [
                  {
                    "rel": "self",
                    "href": "https://ptabdata.uspto.gov/ptab-api/trials/IPR2015-00698/documents"
                  },
                  {
                    "rel": "documents-download",
                    "href": "https://ptabdata.uspto.gov/ptab-api/trials/IPR2015-00698/documents.zip"
                  },
                  {
                    "rel": "trial",
                    "href": "https://ptabdata.uspto.gov/ptab-api/trials/IPR2015-00698"
                  }
                ]
              }
            }
          ]
        }
      }
    ]
  }
}
```

DOWNLOAD CERTAIN TRIAL DOCUMENTS IN ZIP FILE – GET/TRIALS/{TRIALNUMBER}/DOCUMENTS.ZIP

Use this GET to download certain trial all documents in one zip file. A trial id value is required to download file. See return response example below.

Note that files are downloaded to the browser’s default location in its settings.
GET Definitions: Documents

### Example

**Request**

```plaintext
GET /v1/trial/trialNumber/IPR2015-00090
```

**Response Body**

- **Download documents.zip**

---

**Figure 11: Input Value and Return Response Example**
GET DEFINITIONS: TRIALS

SEARCH TRIALS – GET/TRIALS

Use this GET to retrieve trials metadata by default. Parameter fields are optional. However, they are useful for limiting results.

**Request URL**

```
https://ptabdata.uspto.gov/ptab-api/trials
```

*Figure 2: URL to Retrieve Trial Metadata*

```
{
  "metadata": {
    "limit": 25,
    "offset": 0,
    "count": 5225,
    "links": [{
      "rel": "self",
      "href": "https://ptabdata.uspto.gov/ptab-api/trials"
    }]
  },
  "results": [
    {
      "petitionerPartyName": "SAP America, Inc.",
      "patentOwnerName": "Versata Software, Inc",
      "prosecutionStatus": "FWD Entered",
      "lastModifiedDateTime": "2016-07-10T18:44:18",
      "accordedFilingDate": "2012-09-16",
      "institutionDecisionDate": "2013-01-06",
      "applicationNumber": "09253427",
      "patentNumber": "6553350",
      "inventorName": "THOMAS CARTER",
      "filingDate": "2012-09-16",
      "trialNumber": "CBM2012-00001",
      "links": [{
        "rel": "self",
        "href": "https://ptabdata.uspto.gov/ptab-api/trials/CBM2012-00001"
      },
      {"rel": "documents",
       "href": "https://ptabdata.uspto.gov/ptab-api/trials/CBM2012-00001/documents"
      },
      { "rel": "documents-download",
        "href": "https://ptabdata.uspto.gov/ptab-api/trials/CBM2012-00001/documents.zip" }
    }
  ]
}
```

*Figure 3: Metadata and Results*
SEARCH TRIALS BY TRIAL NUMBER – GET/TRIALS/{TRIALNUMBER}

Use this GET to search by a trial number. A trial number value is required for return response. This value can be extracted from GET/trials.

![Trial Number Parameter Example](image)

Figure 134: Trial Number Parameter Example

```json
{
    "lastModifiedDateTime": "2016-07-10T18:44:41",
    "patentNumber": "8260015",
    "applicationNumber": "13115928",
    "trialNumber": "CBM2013-00055",
    "petitionerPartyName": "GSI Commerce Solutions, Inc.",
    "patentOwnerName": "Clear With Computers, LLC",
    "inventorName": "Jerome Johnson",
    "prosecutionStatus": "Terminated-Settled",
    "filingDate": "2013-09-04",
    "accordedFilingDate": "2013-09-04",
    "institutionDecisionDate": "2014-03-06",
    "links": [
        {
            "rel": "self",
            "href": "https://ptabdata.uspto.gov/ptab-api/trials/CBM2013-00055"
        }
    ],
    "links": [
        {
            "rel": "documents",
            "href": "https://ptabdata.uspto.gov/ptab-api/trials/CBM2013-00055/documents"
        }
    ],
    "links": [
        {
            "rel": "documents-download",
        }
    ]
}
```

Figure 145: Return Response Example