Deutscher Bundestag

API documentation for DIP

The Documentation and Information System for Parliamentary Material (DIP) provides a technial application programming interface (API). This API allows reading access to the entities of the DIP database (deliberation and legislative processes, activities, persons as well as printed papers and plenary records).

Contents

1   Access requirements & instructions for use

To protext our services from misuse or overload, a valid API key is required to access the application porgramming interface. This key can be requested informally from the **information and research service of the parliamentary documentation** at parlamentsdokumentation@bundestag.de.

To ensure the overall stability and availability of the system, **no more than 25 simultaneous API requests** should be executed.

2   Technical Documentation

2.1 Basics

The DIP application programming interface is offered as a RESTful Web Service on https://search.dip.bundestag.de/api/v1 .
Reading http requests (`GET`, `HEAD`, `OPTIONS`) are permitted.
The response format is `application/json` or `application/xml` (controllable via the `format` parameter).

A valid API key is required for all requests. An API key is a 42-character text. This text can be sent either in the HTTP Authorisation Header or as a request parameter `apikey`.

Example: Authorisation header with API key

```
Authorization: ApiKey GmEPb1B.bfqJLIhcGAsH9fTJevTglhFpCoZyAAAdhp
```

Example: Request parameter with API key

```
?apikey= GmEPb1B.bfqJLIhcGAsH9fTJevTglhFpCoZyAAAdhp
```

2.2 Structure of URLs

The URLs of the available resources always follow the same structure:
`https://search.dip.bundestag.de/api/v1/{ressourcentyp}` returns a list of all entities of a given resource type.
`https://search.dip.bundestag.de/api/v1/{ressourcentyp}/{id}` returns an entity of a specific resource type referenced by an ID.
The possible resource types are:

Resource type	Description
`aktivitaet`	Metadata on activities
`drucksache`	Metadata on printed papers
`drucksache-text`	If availabe, the full texts oft he printed paper are also output.
`person`	Person master data
`plenarprotokoll`	Metadata on plenary records
`plenarprotokoll-text`	If available, the full texts oft he plenary records are also output.
`vorgang`	Metadata on deliberation/legislative processes
`vorgangsposition`	Metadata on parliamentary items of deliberation/legislative processes

2.3 Requesting single entities

GET https://search.dip.bundestag.de/api/v1/{ressourcentyp}/{id}

Parameter	Description	Example
ressourcentyp *Path* String	Name of the resource type aktivitaet |drucksache | person | plenarprotokoll | vorgang | vorgangsposition	/api/v1/plenarprotokoll/908
id *Path* Integer	ID of the entity	
format *Request* String	json | xml Default: json	/api/v1/plenarprotokoll/908?format=xml

A request for a single entity via the resource type and the ID will, if successful, return a JSON document containing the fields oft he entity.

Response	Description	Content

200	Successful request of an entity.	{
		   "id": "...",
		  ...
		}

404	The requested entity or resource type was not found.	{
		   "code": "404",
		 "message": "...",
		}

Example: Request for metadata of the first plenary record of the German Bundestag of the 19th electoral term.

https://search.dip.bundestag.de/api/v1/plenarprotokoll/908?apikeyGmEPb1B.bfqJLIhcGAsH9fTJevTglhFpCoZyAAAdhp

Response (abridged):

```json
{
    "id":"908",
    "typ":"Dokument",
    "dokumentart":"Plenarprotokoll",
    "titel":"Protokoll der 1. Sitzung des 19. Deutschen Bundestages",
    "dokumentnummer":"19/1",
    "wahlperiode":19,
    "herausgeber":"BT",
    "datum":"2017-10-24",
    "fundstelle":{
        "pdf_url":"https://dserver.bundestag.de/btp/19/19001.pdf",
        "dokumentnummer":"19/1",
        "datum":"2017-10-24",
        "verteildatum":"2017-10-25"
    },
    "vorgangsbezug":[
        {
            "id":"84393",
            "titel":"Eröffnung der 1. Sitzung des 19. Deutschen Bundestages",
            "vorgangstyp":"Ansprache/Erklärung/Mitteilung"
        },
        {
            "id":"84352",
            "titel":"Grundsatz der Diskontinuität in der konstituierenden Sitzung des 19.
Deutschen Bundestages",
            "vorgangstyp":"Geschäftsordnung"
        },
        {
            "id":"84396",
            "titel":"Wahl der Stellvertreterinnen und Stellvertreter des Präsidenten",
            "vorgangstyp":"Wahl im BT"
        }
    ]
}
```

Note: References to other Entities (in this case the field vorgangsbezug) are usually only output as a preview for content classification. The list of referenced entities does not have to be complete. In order to obtain a complete list, an additional request should be executed (see following section).

In this example:

https://search.dip.bundestag.de/api/v1/vorgang?f.plenarprotokoll=908&apikey=GmEPb1B.bfqJLIhcGAsH9fTJevTglhFpCoZyAAAdhp

2.4 Requesting multiple entities

GET `https://search.dip.bundestag.de/api/v1/{ressourcentyp}`

Parameter	Description	Example
ressourcentyp *Path* String	Name of the resource type `Aktivitaet	drucksache |` `person	plenarprotokoll |` `vorgang	vorgangsposition`	`/api/v1/vorgang`

Parameter	Description	Example
cursor *Request* String	Position of the cursor to the request of additional entities (see *subsequent requests for additional entities*)	/api/v1/vorgang?cursor=AoJwwOKPs1MCNF B sZW5hcnByb3Rva29sbC00NzM5
f.id *Request, optional* Integer	ID of the entity Can be repeated to select multiple entities.	/api/v1/vorgang?f.id=84393&f.id=84394
f.datum.start *Request, optional* String	Earliest date oft he entity in format JJJJ-MM-TT Selects entities in a date range based on the document date. For actvities and persons, the date range of all related documents is used.	/api/v1/vorgang?f.datum.start=2020-01-01&f.datum.end=2020-02-28
f.datum.end *Request, optional* String	Latest date of the entity in format JJJJ-MM-TT	
f.drucksache *Request, optional* Integer	ID of a linked printed paper Selects all entities associated with the specified printed paper. Applicable to the resource types: aktivitaet vorgang vorgangsposition	/api/v1/vorgang?f.drucksache=68852
f.plenarprotoko ll *Request, optional* Integer	ID of a linked plenary record Selects all entities associated with the specified plenary record. Applicable to the resource types: aktivitaet vorgang vorgangsposition	/api/v1/vorgang?f.plenarprotokoll=908
f.vorgang *Request, optional* Integer	ID of a linked deliberation/legislative process Selects all entities associated with the specified deliberation/legislative process. Applicable to the resource type: vorgangsposition	/api/v1/vorgangsposition?f.vorgang=84 3 94
f.aktivitaet *Request, optional* Integer	ID of a linked activity Selects all entities associated with the specified activity. Applicable to the resource type: vorgangsposition	/api/v1/vorgangsposition?f.aktivitaet= 1493545
f.zuordnung *Request, optional* String	Allocation of the entity to the Bundestag, Bundesrat, Bundesversammlung or Europakammer BT | BR | BV | EK Applicable to the resource types: aktivitaet drucksache	/api/v1/plenarprotokoll?f.zuordnung=BT

Parameter	Beschreibung	Beispiel
	`plenarprotokoll` `vorgangsposition`	
`format` *Request* `String`	`json   | xml` Default: `json`	`/api/v1/plenarprotokoll?format=xml`

If successful, a request returns a JSON object containing the number (`numFound`) and a list oft he found entities (`documents`).

A maximum of 100 entities are output per request. The full-text resource types `plenarprotokoll-text` and `drucksache-text` are limited to a maximum of 10 entities. Further entities can be requested by means of the `cursor` parameter.

Entities are always sorted in descending order by date and ID.

Response	Description	Content

200	Successfull request of multiple entities	`{`
		`    "numFound": 2,`
		`    "documents":[`
		`      {`
		`        "id":"...",`
		`        ...`
		`      },`
		`      {`
		`        "id":"...",`
		`        ...`
		`      }`
		`    ],`
		`    cursor:"..."`
		`}`

400	Syntax error in one of the request parameters	`{`
		`    "code": "400",`
		`    "message":  "Invalid date",`
		` }`

404	The resource type was not found.	`{`
		`    "code": "404",`
		`    "message":"...",`
		` }`

Example: Request of all plenary records of the German Bundestag since 01/01/2021

https://search.dip.bundestag.de/api/v1/plenarprotokoll?f.zuordnung=BT&f.datum.start=2021-01-01&apikey=GmEPb1B.bfqJLIhcGAsH9fTJevTglhFpCoZyAAAdhp

Response (abridged):

```
{
   "numFound": 17,
    "documents": [
    {
        "id": "5402",
        "titel": "Protokoll der 219. Sitzung des 19. Deutschen Bundestages",
        "dokumentart": "Plenarprotokoll",
        "typ": "Dokument",
        "dokumentnummer": "19/219",
        "wahlperiode": 19,
        "herausgeber": "BT",
        "datum": "2021-03-26",
        "fundstelle": {
          "pdf_url": "https://dserver.bundestag.de/btp/19/19219.pdf",
          "dokumentnummer": "19/219",
          "datum": "2021-03-26"
        }
    },
     ...
    {
        "id": "5383",
        "dokumentart": "Plenarprotokoll",
        "titel": "Protokoll der 203. Sitzung des 19. Deutschen Bundestages",
        "typ": "Dokument",
        "dokumentnummer": "19/203",
        "wahlperiode": 19,
        "herausgeber": "BT",
        "datum": "2021-01-13",
        "fundstelle": {
            "pdf_url": "https://dserver.bundestag.de/btp/19/19203.pdf",
          "dokumentnummer": "19/203",
          "datum": "2021-01-13",
          "verteildatum": "2021-01-14"
        }
    }
   ],
   "cursor": " AoJwgNjC/PYCNFBsZW5hcnByb3Rva29sbC01Mzgz"
}
```

2.5 Subsequent requests for further entities

If the number of entities found exceeds the respective limit, a subsequent request must be made to request more entities.
A subsequent request is formed by repeating all parameters of the initial request and additionally using the cursor parameter of the last response.
Subsequent request can be made until the cursor stops changing. This indicates that all entities have been downloaded.

Note: The cursor is output in Base64 encoding. The special characters „/" and „+" used here may have to be translated into URL encoding for use as request parameters:
- „/" must be replaced by „%2F"
- „+" must be replaced by „%2B"

Example: Request of all plenary records of the German Bundestag of the 1st sitting week 2021

Request:

https://search.dip.bundestag.de/api/v1/drucksache?f.zuordnung=BT&f.datum.start=2021-01-11&f.datum.end=2021-01-15&apikey=GmEPb1B.bfqJLIhcGAsH9fTJevTglhFpCoZyAAAdhp

Response (abridged):

```
{
   "numFound": 176,
   "documents": [ ... ],
   "cursor":" AoJwgNjC/PYCMURydWNrc2FjaGUtMjQ5MjYw"
}
```

2nd request:
https://search.dip.bundestag.de/api/v1/drucksache?f.zuordnung=BT&f.datum.start=2021-01-11&f.datum.end=2021-01-15&apikey=GmEPb1B.bfqJLIhcGAsH9fTJevTglhFpCoZyAAAdhp&cursor=AoJwgNjC%2FPYCMURydWNrc2FjaGUtMjQ5MjYw

Response (abridged):

```
{
   "numFound": 176,
   "documents": [ ... ],
   "cursor":" AoJwgMGv9/YCMURydWNrc2FjaGUtMjQ5MTUz"
}
```

3rd request:
https://search.dip.bundestag.de/api/v1/drucksache?f.zuordnung=BT&f.datum.start=2021-01-11&f.datum.end=2021-01-15&apikey=GmEPb1B.bfqJLIhcGAsH9fTJevTglhFpCoZyAAAdhp&cursor=AoJwgMGv9%2FYCMURydWNrc2FjaGUtMjQ5MTUz

Response:

```
{
   "numFound": 176,
   "documents": [],
   "cursor":" AoJwgMGv9/YCMURydWNrc2FjaGUtMjQ5MTUz"
}
```