



API V1



Versions of DMPRoadmap APIs

Currently there are two versions: V0 and V1

APIs| V0 and V1



| | V0 | V1 |
|---------------------|--|---|
| Purpose | Provides organisational administrators with access to the full text of all of their user's plans | Complies with the RDA Common Standard Metadata schema v1.0 . This schema is a recommendation for the transfer of DMP metadata between systems |
| Endpoints | Plans, Guidance, Templates, Departments and Statistics | Heartbeat, Authenticate, Plans, Templates |
| Requirements | API Access token | API Access token and authentication token |
| Example | GET /api/v0/plans?created_after=2019-01-01 GET /api/v0/departments/users | GET /api/v1/plans/123 GET /api/v1/templates |

<https://github.com/DMPRoadmap/roadmap/wiki/API-V0-Documentation>

<https://github.com/DMPRoadmap/roadmap/wiki/API-Documentation-V1>



How to use the API?

Two methods: RESTED (Firefox extension), command line



How to use API V1 with RESTED and command line



What you need:

- Firefox browser
- RESTED extension (<https://addons.mozilla.org/en-GB/firefox/addon/rested/>)

In the application:

- Org Admin and API access permissions
- Your API access token (Edit profile -> API access tab -> Generate token)

Edit profile

The screenshot shows the 'Edit profile' page with four tabs: 'Personal Details', 'Password', 'API Access', and 'Notification Preferences'. The 'API Access' tab is active. It displays an 'Access token' field with the value 'jg9SZIDv71yPrTZkqx9ikw', which is highlighted by a red box. Below this, there is a 'Documentation' section with two links: 'documentation for v0' and 'documentation for v1'. At the bottom of the API Access section, there is a 'Regenerate token' button.



Steps to get authentication token using RESTED:

- 1) Set **Request** type as **POST**
- 2) Insert link (example): <https://dmponline.dcc.ac.uk/api/v1/authenticate>
- 3) Add one **Header**
Content-Type: application/json
- 4) Add **Request body, Type** set to **Custom**

```
{"grant_type": "authorization_code", "email": "<YOUR EMAIL ID>", "code": "<YOUR ACCESS TOKEN>"}
```



Authentication token using RESTED

The screenshot shows the RESTED interface for a REST client. The request is a POST to `https://dmponline.dcc.ac.uk/api/v1/authenticate` with a `Content-Type` header of `application/json`. The request body is a JSON object: `{ "grant_type": "authorization_code", "email": "gjdpadm@gmail.com", "code": "jg95ZIDv71yPrTZkqx9ikw" }`. The response is a 200 OK with headers and a JSON body containing an `access_token`.

Request

Method: POST
URL: `https://dmponline.dcc.ac.uk/api/v1/authenticate`
Send request

Headers

Content-Type: `application/json`

Request body

Type: Custom
`{ "grant_type": "authorization_code", "email": "gjdpadm@gmail.com", "code": "jg95ZIDv71yPrTZkqx9ikw" }`

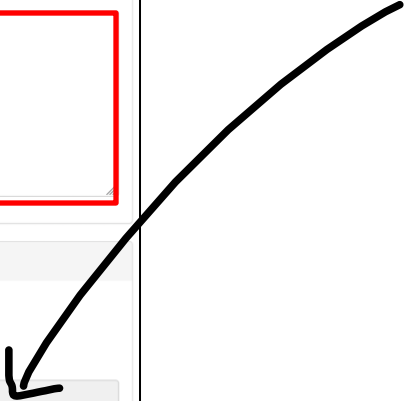
Response (0.331s) - https://dmponline.dcc.ac.uk/api/v1/authenticate

200 OK

Headers

```
{
  "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IWRXbWV2bzE1LW1wZXhwIjoxNjY1MjM2NDUyOTQsIm51bWVudCI6Ijg5ZjZlZDv71yPrTZkqx9ikw",
  "token_type": "Bearer",
  "expires_in": 1665236416,
  "created_at": "2022-10-07T13:40:16+00:00"
}
```

Authentication token





Steps to make a GET request using RESTED:

(a GET request retrieves the information requested)

1) Set **Request** to **GET**

2) Insert **link** with required endpoint

Example: <https://dmponline.dcc.ac.uk/api/v1/plans>

3) Add two **Headers**

Authorization -> Bearer <Your Authentication token>

Content-Type -> application/json

4) Click '**Send Request**'

Note:

You can use any URL with the required endpoints. (dmponline.gla.ac.uk, dmponline.ed.ac.uk etc.)

Place the authentication token from the previous step after 'Bearer'

Result of /api/v1/plans with RESTED



Request

GET [Send request](#)

Headers

| | | |
|---------------|--|-------------------|
| Content-Type | application/json | ✕ |
| Authorization | Bearer eyJhbGciOiJIUzI1NiJ9.eyJjbGllbnRfaWQiOiJnamRtcGFkbW5AZi | ✕ |

[+ Add header](#)

[Basic auth >](#)

Response (0.686s) - https://dmponline.dcc.ac.uk/api/v1/plans

200 OK

Headers >

```
{
  "application": "DMPonline",
  "source": "GET /api/v1/plans",
  "time": "2022-10-07T13:30:55+00:00",
  "caller": "Glenys Ad",
  "code": 200,
  "message": "OK",
  "page": 1,
  "per_page": 20,
  "total_items": 51,
  "next": "/api/v1/plans?page=2&per_page=20",
  "items": [
    {
      "dmp": {
        "schema": "https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard/tree/master/examples/JSON/JSON-schema/1.0",
        "title": "My project (Horizon 2020 DMP)",
        "description": "",
        "language": "eng",
        "created": "2014-04-10T15:09:59Z",
        "modified": "2017-06-23T08:07:47Z"
      }
    }
  ]
}
```



Steps to get authentication token using the command line:

1) Open Terminal

2) Example:

```
curl -k -v -X POST https://dmponline.dcc.ac.uk/api/v1/authenticate -H "Content-Type: application/x-www-form-urlencoded;charset=UTF-8" -H "Accept: application/json" -d {"grant_type":"authorization_code","email":"<YOUR EMAIL ID>","code":"<YOUR ACCESS CODE>"}
```

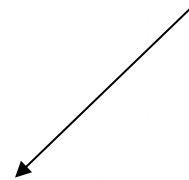
Note: Ensure correct quotes are used. Text editors occasionally change the quotes.

```
~$ curl -k -v -X POST https://dmponline.dcc.ac.uk/api/v1/authenticate -H "Content-Type: application/x-www-form-urlencoded;charset=UTF-8" -H "Accept: application/json" -d {"grant_type":"authorization_code","email":"gjdmpadm@gmail.com","code":"jg9SZIDv71yPrTZkqx9ikw"}
```



```
* SSL connection using TLSv1.2 / ECDHE-RSA-AES256-GCM-SHA384
* ALPN, server accepted to use http/1.1
* Server certificate:
* subject: CN=dmonline.dcc.ac.uk
* start date: Aug 30 09:42:21 2022 GMT
* expire date: Nov 28 09:42:20 2022 GMT
* issuer: C=US; O=Let's Encrypt; CN=R3
* SSL certificate verify ok.
> POST /api/v1/authenticate HTTP/1.1
> Host: dmonline.dcc.ac.uk
> User-Agent: curl/7.79.1
> Content-Type: application/x-www-form-urlencoded;charset=UTF-8
> Accept: application/json
> Content-Length: 97
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Fri, 07 Oct 2022 14:47:42 GMT
< Server: Apache
< X-Frame-Options: SAMEORIGIN
< X-XSS-Protection: 1; mode=block
< X-Content-Type-Options: nosniff
< X-Download-Options: noopen
< X-Permitted-Cross-Domain-Policies: none
< Referrer-Policy: strict-origin-when-cross-origin
< Content-Type: application/json; charset=utf-8
< ETag: W/"7d462f374dd7ddaab5b8a68e84e5196e"
< Cache-Control: max-age=0, private, must-revalidate
< X-Request-Id: 95430720-7358-4d33-8678-a1a517267a6b
< X-Runtime: 0.105100
< Set-Cookie: dmp_roadmap_session=5f8f9b1931fd3bed5a0f6b559debd787; path=/; HttpOnly
< Transfer-Encoding: chunked
< Set-Cookie: NSC_enapomjof-mc.edd.bd.v1=ffffffff82df155445525d5f4f58455e445a4a4231e0;path=/;secure
{
  "access_token": "eyJhbGciOiJIUzI1NiJ9.eyJybGUiOiJlbnRfawQ1OjNmRtcGkKbW5AZ21haWwUy291IiwiaXZwIjoxNjY1MjQwNDYzZjQ.hND-BhFk9eGtD0gU-A2ex_zKR1va1Bh0CbvJfn3uu4",
  "token_type": "Bearer",
  "expires_in": 1665240463,
  "created_at": "2022-10-07T14:47:43+00:00"
}
* Connection #0 to host dmonline.dcc.ac.uk left intact
```

Authentication token





Steps to make a GET request using command line:

(a GET request retrieves the information requested)

1) Open Terminal

2) Example:

```
curl -v https://dmponline.dcc.ac.uk/api/v1/plans/ -H "Accept: application/json" -H "Authorization: Bearer <YOUR AUTHENTICATION TOKEN>"
```

Note:

You can use any URL with the required endpoints. (dmponline.gla.ac.uk, dmponline.ed.ac.uk etc.)

Place the authentication token from the previous step after 'Bearer'

```
~$ curl -v https://dmponline.dcc.ac.uk/api/v1/plans/ -H "Accept: application/json" -H "Authorization: Bearer eyGci0iJIUzI1NiJ9.eyJjbG11bnRfaWQiOiJnamRtcGFkbW5AZ21haWwuyY29tIiwiaXhwIjoxNjY1MjQwOTM4fQ.vyT5MH0Q7fABaneHt8xmEXktnNF22FnJCv0TW9vzv_Q"
```



End of result when you run /api/v1/plans

```

    }
  }
},
{
  "dmp": {
    "schema": "https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard/tree/master/examples/JSON/JSON-schema/1.0",
    "title": "M's Plan",
    "language": "eng",
    "created": "2019-09-24T15:01:18Z",
    "modified": "2019-09-24T15:01:18Z",
    "ethical_issues_exist": "unknown",
    "dmp_id": {
      "type": "url",
      "identifier": "http://dmponline.dcc.ac.uk/api/v1/plans/45736"
    },
    "contact": {
      "name": "M Grootveld",
      "mbox": "mj.grootveld@gmail.com",
      "affiliation": {
        "name": "Digital Curation Centre",
        "abbreviation": "DCC"
      },
      "contact_id": {
        "type": "orcid",
        "identifier": "https://orcid.org/0000-0002-2789-322X"
      }
    }
  },
},
{
  "dmp": {
    "schema": "https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard/tree/master/examples/JSON/JSON-schema/1.0",
    "title": "Magdalena's Plan",
    "language": "eng",
    "created": "2019-11-22T12:42:19Z",
    "modified": "2020-03-10T11:39:12Z",
    "ethical_issues_exist": "unknown",
    "dmp_id": {
      "type": "url",
      "identifier": "http://dmponline.dcc.ac.uk/api/v1/plans/48694"
    },
    "contact": {
      "name": "Magdalena Drafiova",
      "mbox": "dmponlinetestmagdalena@gmail.com",
      "affiliation": {
        "name": "Digital Curation Centre",
        "abbreviation": "DCC"
      }
    }
  },
},
}
]
* Connection #0 to host dmponline.dcc.ac.uk left intact

```