

Table of Contents

NNELS API v1.1 Documentation

Current Testing Server

Notes

AuthN

Request Example

Response structure

AuthZ

Refresh Token

USERS

User Request example

Response structure

BASIC SEARCH (Keywords)

Keyword Search

REPO_ITEMS

Specific Repo Item Request example

Response structure

Notes

1

1

1

1

1

1

2

2

3

3

3

4

4

4

4

5

7

NNELS API v1.1 Documentation

Version 0.5 used Services and Services Views.

Version 1.x uses RESTful framework.

Current Testing Server

Host	dev.nnels.ca
Base Endpoint	api
Example	https://dev.nnels.ca/api/v[:version.minor]/[:resource]/

Notes

- Authenticate against the <api_endpoint>/login-token/ resource with Basic Authentication to gain **access_token**
- Bear the **access_token** for authorization for all other requests before its expiry period.
- Refresh against <api_endpoint>/refresh-token/ with the **refresh_token** supplied by initial authentication
- If receiving uid 0 back from a specific user request, this means your access token expired.

Discover Resources and their versions

To discover a list of available resources and the latest version for each, issue:

```
GET /api/  
Host: [:current host]
```

AuthN

Request Example

Use Basic Auth to encode username:pass

```
GET /api/login-token HTTP/1.1  
Host: dev.nnels.ca  
Authorization: Basic dGVzdC1hY2NvdW50m5vdFJlYWw=
```

Response structure

```
{  
  "data": [  
    {
```

```
        "access_token": {
            "data": {
                "type": "text",
                "required": false
            },
            "info": {
                "label": "Token",
                "description": "Authentication token \"token\"
property."
            }
        },
        "type": [],
        "expires_in": {
            "data": {
                "type": "integer",
                "required": false
            },
            "info": {
                "label": "Expire",
                "description": "Authentication token \"expire\"
property."
            }
        },
        "refresh_token": {
            "info": {
                "label": "Refresh token",
                "description": "Token used to get a new access token
once it is expired."
            },
        }
    }
},
"self": {
    "title": "Self",
    "href": "https://dev.nnels.ca/api/login-token"
}
}
```

AuthZ

Set access-token header with value for subsequent requests.

Refresh Token

After expires_in reaches 0, a new access_token can be requested with:

```
GET /api/refresh-token/[:refresh_token] HTTP/1.1
```

Host: dev.nnels.ca

USERS

- User can request information about self with `users/me`
- Administrator can request information about specific users by their ID: `v1.1/users/[:id]`
- Or a users listing: `v1.1/users/`

User Request example

```
GET /api/users/me HTTP/1.1
Host: dev.nnels.ca
access-token: [:access-token]
```

Response structure

```
{
  "data": [
    {
      "id": {
        "info": {
          "label": "ID",
          "description": "Base ID for the entity."
        },
        "data": {
          "type": "integer",
          "required": true,
          "read_only": true,
          "cardinality": 1
        }
      },
      "label": {
        "info": {
          "label": "Label",
          "description": "The label of the resource."
        },
        "data": {
          "type": "string",
          "read_only": false,
          "cardinality": 1,
          "required": false,
          "size": 255
        }
      },
      "self": [],
      "mail": {
        "data": {
```

```
        "type": "text",
        "required": true
    },
    "info": {
        "label": "Email",
        "description": "The email address of the user account."
    }
}
}
],
"self": {
    "title": "Self",
    "href": "https://staging.nnels.ca/api/v1.0/users/117"
}
}
```

BASIC SEARCH (Keywords)

Keyword Search

URL-encode keywords and append to resource

```
GET /api/basic_search/keyword1+keyword2+keyword3 HTTP/1.1
Host: dev.nnels.ca
Authorization: Basic dGVzdC1hY2NvdW50m5vdFJlYWw=
```

REPO_ITEMS

Specific Repo Item Request example

With node ID (nid)

```
GET /api/v1.0/repo_items[:nid] HTTP/1.1
Host: dev.nnels.ca
access-token: [:access-token]
```

Alternate load by UUID (uuid)

```
GET /api/v1.0/repo_items/uuid=:uuid?loadByFieldName=uuid HTTP/1.1
Host: dev.nnels.ca
access-token: [:access-token]
```

Response structure

```
{
  "data": [
    {
      "label": {
        "info": {
          "label": "Label",
          "description": "The label of the resource."
        },
        "data": {
          "type": "string",
          "required": false,
          "read_only": false,
          "cardinality": 1,
          "size": 255
        },
        "form_element": {
          "type": "textfield",
          "default_value": "",
          "placeholder": "",
          "size": 255,
          "allowed_values": null,
          "title": "label",
          "description": "The label of the resource."
        }
      },
      "creators": {
        "info": {
          "label": "Creator",
          "description": ""
        },
        "form_element": {
          "allowed_values": [],
          "default_value": null,
          "type": "text_textfield",
          "title": "creators"
        }
      },
      "languages": {
        "info": {
          "label": "Language",
          "description": ""
        },
        "form_element": {
          "default_value": [
            {
              "value": "eng"
            }
          ],
        }
      }
    }
  ],
}
```

```
        "type": "options_buttons",
        "title": "languages"
    },
    "isbn": {
        "info": {
            "label": "ISBN",
            "description": ""
        },
        "form_element": {
            "allowed_values": [],
            "default_value": null,
            "type": "text_textfield",
            "title": "isbn"
        }
    },
    "uuid": {
        "data": {
            "type": "text",
            "required": false
        },
        "info": {
            "label": "UUID",
            "description": "The universally unique ID."
        }
    },
    "published_date": {
        "info": {
            "label": "Date",
            "description": ""
        },
        "form_element": {
            "allowed_values": [],
            "default_value": null,
            "type": "field_collection_embed",
            "title": "published_date"
        }
    },
    "file_resources": {
        "data": {
            "type": "integer",
            "required": false
        },
        "info": {
            "label": "Node ID",
            "description": "The unique ID of the node."
        }
    }
},
],
```



```
"self": {  
  "title": "Self",  
  "href": "https://dev.nnels.ca/api/v1.0/repo_items/6804"  
}
```

Notes

- The **file_resources** field contains signed S3 URIs to the files available for download for this title. This is excluded from cache and so will be regenerated upon each GET request.
- Issue GET against /repo-items/?range=N for a listing of N repo items.
- Follow root links element for paging URIs (self, first, previous, last, next)

From:
<https://wiki.libraries.coop/> - BC Libraries Coop wiki

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Last update: **2018/09/11 17:40**

