

# Table of Contents

- NNELS API v1.1 Documentation** ..... 1
- Current Testing Server*** ..... 1
- Notes*** ..... 1
- AuthN*** ..... 1
  - Request Example ..... 1
  - Response structure ..... 1
- AuthZ*** ..... 2
  - Refresh Token ..... 2
- USERS*** ..... 3
  - User Request example ..... 3
  - Response structure ..... 3
- SEARCH API (Full-text)*** ..... 4
- REPO\_ITEMS*** ..... 4
  - Specific Repo Item Request example ..... 4
  - Response structure ..... 4
  - Notes ..... 6



# 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	<a href="https://dev.nnels.ca/api/v[:version.minor]/[:resource]/">https://dev.nnels.ca/api/v[:version.minor]/[:resource]/</a>

## 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"
}
}
```

## SEARCH API (Full-text)

Coming soon.

## 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)

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