

# REST API

You need to be logged in to access the REST API.

## Programmatic access

The access to the API is obtained with a JSON Web Token (JWT).

In order to get a token, send a POST request with credentials to the `/api/token` endpoint as in the cURL example below:

```
% curl \  
-X POST \  
-H "Content-Type: application/json" \  
-d '{"email": "<your@email>", "password": "<your_password>"}' \  
https://sanaregistry.org/api/token  
...  
{  
  "refresh": "<your-refresh-token>",  
  "access": "<your-access-token>"  
}
```

Then you can use the access token in the `Authorization` header as follow:

```
% curl \  
-H "Authorization: Bearer <your-access-token>" \  
https://sanaregistry.org/<endpoint>
```

The access token has a limited lifetime, once expired you can refresh it to obtain another access token with a POST request to the `/api/token/refresh` endpoint:

```
% curl \  
-X POST \  
-H "Content-Type: application/json" \  
-d '{"refresh": "<your-refresh-token>"}' \  
https://sanaregistry.org/api/token/refresh
```

## Endpoints

The REST API only provides GET endpoints at the moment (except for credentials). The endpoints for registries and records are as follow:

- `/api/registries`: list all the registries
- `/api/registries/<registry-slug>`: get registry information
- `/api/registries/<registry-slug>/records`: list all the records of a registry
- `/api/registries/<registry-slug>/record/<record-id>`: list all the records of a registry

## Browse the API

The SANA REST API allows browsing registries and records and apply filtering on them.

The API can be browsed from the registry list endpoint (</api/registries>).

## Additional data

The REST API responses includes some additional data compared to the SANA views to ease navigation between objects. This is a non-exhaustive list of those additional elements:

- `url`: The URL of a resource
- `records`: For registry, the links to the records API
- `link`: For references, a link to access the reference content (if available)

Moreover, relationship with other records is described with the following elements:

- `record`: The record friendly name
- `url`: The URL of the record
- `oid`: The OID of the record

## Filtering

List endpoints offer filtering, please browse the API online and click the filtering button to apply `Filters`, then you can use them in your programmatic queries.

## Pagination

Responses from list APIs are paginated, each page contains 100 entry.

The paginated results contains the following elements:

- `count`: The number of elements in the registry
- `next`: The URL of the next page
- `previous`: The URL for the previous page
- `results`: The result of the API call



(<http://www.nasa.gov/>)



(<http://viagenie.ca/>)



(<http://www.ccsds.org/>)

SANA operation is provided by Viagenie (<http://www.viagenie.ca>) under the secretariat of the Consultative Committee for Space Data Systems (CCSDS) (<http://www.ccsds.org>). The project is funded by NASA (<http://www.nasa.gov>).