MS Registry REST API Resources

Contents

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Welcome to the MS Registry REST API. Below, you'll find a full listing of all the available endpoints. As we add more endpoints, they will be automatically documented here.

The endpoint's documentation section includes what query parameters the endpoint will accept, what the JSON object's parameters will be in the response, and an example query/response.

This documentation is for most recent version of the MS Registry REST API, version **v0.3.2**.

GET /auth/test

Test Bearer Token authentication.

Resource Information

```
Method                   GET
URL                      /auth/test
Requires authentication? Yes
Requires Role?           Every Role can access
```

Resource Errors

These are the possible errors returned by this endpoint.

status	code	message
403	authorization_required	Authorization header is expected
401	invalid_header	Authorization header must start with Bearer
401	invalid_header	Token not found
400	token_expired	Token is expired
400	invalid_audience	Incorrect audience
400	invalid_signature	Token signature is invalid

Example

```
curl \
 -H 'authorization: Bearer YOUR_API_TOKEN' \
```

```
'https://ws.msregistry.s3it.uzh.ch/auth/test'
```

Response

```
{
  "status": 200,
  "code": "authorization_success",
  "description": "All good. You only get this message if you're authenticated."
}
```

GET /user

Get metadata about the current user.

Resource Information

```
Method                  GET
URL                     /api/v1.0/user
Requires authentication?  Yes
Requires Role?          Every Role can access
```

Response Parameters

Parameter	Type	Description
uniqueID	(string)	That's the unique ID of the user, received from OAuth server
member_since	(iso 8601 datetime)	Datetime the user joined
last_seen	(iso 8601 datetime)	Datetime last seen user. This field is updated on every user interaction

Resource Errors

These are the possible errors returned by this endpoint.

status	code	message
403	authorization_required	Authorization header is expected
401	invalid_header	Authorization header must start with Bearer
401	invalid_header	Token not found
400	token_expired	Token is expired
400	invalid_audience	Incorrect audience
400	invalid_signature	Token signature is invalid

status	code	message
404	not_found	Couldn't found a User with UniqueID={}

Example

```
curl \
 -H 'authorization: Bearer YOUR_API_TOKEN' \
 'https://ws.msregistry.s3it.uzh.ch/api/v1.0/user'
```

Response

```json
{
  "uniqueID": "auth0|569cf82bfc02d8a0339beef4",
  "member_since": "2016-03-04T17:03:37",
  "last_seen": "2016-03-04T17:05:12"
}
```

GET /user/consent/info

Get detailed informations about user acceptance of Informed Consent.

Resource Information

```
Method                    GET
URL                       /api/v1.0/user/consent/info
Requires authentication?  Yes
Requires Role?            Patient, Relative
```

Response Parameters

Relative Role

Parameter	Type	Description
birthdate	(string)	Birthdate in this form %DD.%MM.%YYYY
sex	(string)	Sex. Possibly values are 'male' and 'female'
signature	(string)	Signature by Initials, max 3 digits

Patient Role

Parameter	Type	Description
birthdate	(string)	Birthdate in this form %DD.%MM.%YYYY
sex	(string)	Sex. Possibly values are 'male' and 'female'
signature	(string)	Signature by Initials, max 3 digits
physician_contact_permitted	(bool)	Physician contact permitted
data_exchange_cohort	(bool)	Data exchange cohort
medical_record_abstraction	(bool)	Medical record abstraction

Resource Errors

These are the possible errors returned by this endpoint.

status	code	message
403	authorization_required	Authorization header is expected
401	invalid_header	Authorization header must start with Bearer
401	invalid_header	Token not found
400	token_expired	Token is expired
400	invalid_audience	Incorrect audience
400	invalid_signature	Token signature is invalid
401	unauthorized	Insufficient Roles
404	not_found	Couldn't found a User with UniqueID={}

Example

```
curl \
 -H 'authorization: Bearer YOUR_API_TOKEN' \
 'https://ws.msregistry.s3it.uzh.ch/api/v1.0/user/consent/info'
```

Response

```
{
    "birthdate": "18.09.1974",
    "sex": "M",
    "signature": "FP",
    "data_exchange_cohort": true,
    "date_signed": "2016-03-30T14:33:48.011000",
    "medical_record_abstraction": true,
    "data_exchange_cohort": true,
    "physician_contact_permitted": true
```

```
}
```

GET /user/consent

Get brief information about user acceptance of Informed Consent.

Resource Information

```
Method                  GET
URL                     /api/v1.0/user/consent
Requires authentication?  Yes
Requires Role?          Patient, Relative
```

Response Parameters

Parameter	Type	Description
accepted	(bool)	Return True if Consent Information was accepted, False otherwise

Resource Errors

These are the possible errors returned by this endpoint.

status	code	message
403	authorization_required	Authorization header is expected
401	invalid_header	Authorization header must start with Bearer
401	invalid_header	Token not found
400	token_expired	Token is expired
400	invalid_audience	Incorrect audience
400	invalid_signature	Token signature is invalid
401	unauthorized	Insufficient Roles
404	not_found	Couldn't found a User with UniqueID={}

Example

```
curl \
 -H 'authorization: Bearer YOUR_API_TOKEN' \
 'https://ws.msregistry.s3it.uzh.ch/api/v1.0/user/consent'
```

Response

```
{
    "accepted": true
}
```

POST /user/consent

Set user acceptance of Informed Consent.

Resource Information

```
Method                    POST
URL                       /api/v1.0/user/consent
Requires authentication?  Yes
Requires Role?            Patient, Relative
```

Request Parameters

Relative Role

Parameter	Type	Description
birthdate	(string)	Birthdate in this form %DD.%MM.%YYYY
sex	(string)	Sex. Possibly values are 'male' and 'female'
signature	(string)	Signature by Initials, max 3 digits

Patient Role

Parameter	Type	Description
birthdate	(string)	Birthdate in this form %DD.%MM.%YYYY
sex	(string)	Sex. Possibly values are 'male' and 'female'
signature	(string)	Signature by Initials, max 3 digits
physician_contact_permitted	(bool)	Physician contact permitted
data_exchange_cohort	(bool)	Data exchange cohort
medical_record_abstraction	(bool)	Medical record abstraction

Response Parameters

Parameter	Type	Description
success	(bool)	Return True if content was accepted and registered, False otherwise

Resource Errors

These are the possible errors returned by this endpoint.

status	code	message
403	authorization_required	Authorization header is expected
401	invalid_header	Authorization header must start with Bearer
401	invalid_header	Token not found
401	invalid_header	Authorization header must be Bearer + token
400	token_expired	Token is expired
400	invalid_audience	Incorrect audience
400	invalid_signature	Token signature is invalid
401	unauthorized	Insufficient Roles
405	method_not_allowed	

Example

```
curl \
 -H 'authorization: Bearer YOUR_API_TOKEN' \
 -X POST -d '{"physician_contact_permitted": true, \
             "data_exchange_cohort": true, \
             "medical_record_abstraction": true, \
             "sex": "male", \
             "signature": "FP", \
             "birthdate": "09.18.1974"}' \
 'https://ws.msregistry.s3it.uzh.ch/api/v1.0/user/consent'
```

Response

```
{
  "success": true
}
```

GET /user/diary

Get All Diary entries compiled by User.

Resource Information

```
Method                    GET
URL                       /api/v1.0/user/diary
Requires authentication?  YES
Requires Role?            Patient, Relative
```

Response Parameters

Parameter	Type	Description
diaries	(array)	Return list of all Diaries compiled by User as JSON array
id	(string)	Return Diary ID
diary	(json file)	Return User's Diary. Returned value is a RAW JSON file
timestamp	(iso 8601 datetime)	Datetime the diary was inserted or updated

Resource Errors

These are the possible errors returned by this endpoint.

status	code	message
403	authorization_required	Authorization header is expected
401	invalid_header	Authorization header must start with Bearer
401	invalid_header	Token not found
401	invalid_header	Authorization header must be Bearer + token
400	token_expired	Token is expired
400	invalid_audience	Incorrect audience
400	invalid_signature	Token signature is invalid
401	unauthorized	Insufficient Roles

Example

```
curl \
 -H 'authorization: Bearer YOUR_API_TOKEN' \
 'https://ws.msregistry.s3it.uzh.ch/api/v1.0/user/diary'
```

Response

```json
{
    "diaries": [
        {
            "diary": {
                "value": "any"
            },
            "id": "5707ba42ec71bc038226c84b",
            "timestamp": "2016-04-08T11:36:37.177000"
        }
    ]
}
```

GET /user/diary/<id>

Get User's Diary by Diary ID.

Resource Information

```
Method                    GET
URL                       /api/v1.0/user/diary/<id>
Requires authentication?  YES
Requires Role?            Patient, Relative
```

Request Parameters

Parameter	Type	Description
id	(string)	Diary ID

Response Parameters

Parameter	Type	Description
id	(string)	Return Diary ID
diary	(json file)	Return user's Diary. Returned value is a RAW JSON file
timestamp	(iso 8601 datetime)	Datetime the diary was inserted or updated

Resource Errors

These are the possible errors returned by this endpoint.

status	code	message
403	authorization_required	Authorization header is expected
401	invalid_header	Authorization header must start with Bearer
401	invalid_header	Token not found
401	invalid_header	Authorization header must be Bearer + token
400	token_expired	Token is expired
400	invalid_audience	Incorrect audience
400	invalid_signature	Token signature is invalid
401	unauthorized	Insufficient Roles
404	not_found	Couldn't found a Diary with id={}

Example

```
curl \
 -H 'authorization: Bearer YOUR_API_TOKEN' \
 'https://ws.msregistry.s3it.uzh.ch/api/v1.0/user/diary/56f2c662ec71bc2c6b001040'
```

Response

```
{
    "id": "5707ba42ec71bc038226c84b",
    "diary": {
        "value": "any"
    },
    "timestamp": "2016-04-08T11:36:37.177000"
}
```

POST /user/diary

Insert new User's Diary entry.

Resource Information

```
Method                  POST
URL                     /api/v1.0/user/diary
Requires authentication?  Yes
Requires Role?          Patient, Relative
Requires IC Accepted?   Yes
```

Request Parameters

Parameter	Type	Description
diary	(json file)	RAW JSON file

Response Parameters

Parameter	Type	Description
success	(bool)	Return True if diary was accepted, False if JSON File is not well formatted

Resource Errors

These are the possible errors returned by this endpoint.

status	code	message
403	authorization_required	Authorization header is expected
401	invalid_header	Authorization header must start with Bearer
401	invalid_header	Token not found
401	invalid_header	Authorization header must be Bearer + token
400	token_expired	Token is expired
400	invalid_audience	Incorrect audience
400	invalid_signature	Token signature is invalid
401	unauthorized	Insufficient Roles
401	unauthorized	Consent Information not accepted
405	method_not_allowed	

Example

```
curl \
 -H 'authorization: Bearer YOUR_API_TOKEN' \
 -X POST -d "{'value': 'any'}" \
 'https://ws.msregistry.s3it.uzh.ch/api/v1.0/user/diary'
```

Response

```
{
  "success": true
}
```

GET /user/survey

Get All Survey entries compiled by User.

Resource Information

```
Method                  GET
URL                     /api/v1.0/user/survey
Requires authentication?  YES
Requires Role?          Patient, Relative
```

Response Parameters

Parameter	Type	Description
surveys	(array)	Return list of all Surveys compiled by User as JSON array
id	(string)	Return Survey ID
survey	(json file)	Return User's Survey. Returned value is a RAW JSON file
timestamp	(iso 8601 datetime)	Datetime the survey was inserted

Resource Errors

These are the possible errors returned by this endpoint.

status	code	message
403	authorization_required	Authorization header is expected
401	invalid_header	Authorization header must start with Bearer
401	invalid_header	Token not found
401	invalid_header	Authorization header must be Bearer + token
400	token_expired	Token is expired
400	invalid_audience	Incorrect audience
400	invalid_signature	Token signature is invalid
401	unauthorized	Insufficient Roles

Example

```
curl \
 -H 'authorization: Bearer YOUR_API_TOKEN' \
 'https://ws.msregistry.s3it.uzh.ch/api/v1.0/user/survey'
```

Response

```json
{
    "surveys": [
        {
            "id": "56f2c662ec71bc2c6b001040",
            "survey": {
                "value": "any"
            },
            "timestamp": "2016-03-23T16:37:54.765000"
        },
        {
            "id": "56f2c7cdec71bc2c6b001041",
            "survey": {
                "value": "any"
            },
            "timestamp": "2016-03-23T16:43:57.800000"
        }
    ]
}
```

GET /user/survey/<id>

Get User's Survey by Survey ID.

Resource Information

Method	GET
URL	/api/v1.0/user/survey/<id>
Requires authentication?	YES
Requires Role?	Patient, Relative

Request Parameters

Parameter	Type	Description
id	(string)	Survey ID

Response Parameters

Parameter	Type	Description
id	(string)	Return Survey ID
survey	(json file)	Return user's Survey. Returned value is a RAW JSON file

Parameter	Type	Description
timestamp	(iso 8601 datetime)	Datetime the survey was inserted or updated

Resource Errors

These are the possible errors returned by this endpoint.

status	code	message
403	authorization_required	Authorization header is expected
401	invalid_header	Authorization header must start with Bearer
401	invalid_header	Token not found
401	invalid_header	Authorization header must be Bearer + token
400	token_expired	Token is expired
400	invalid_audience	Incorrect audience
400	invalid_signature	Token signature is invalid
401	unauthorized	Insufficient Roles
404	not_found	Couldn't found a Survey with id={}

Example

```
curl \
 -H 'authorization: Bearer YOUR_API_TOKEN' \
 'https://ws.msregistry.s3it.uzh.ch/api/v1.0/user/survey/56f2c662ec71bc2c6b001040'
```

Response

```
{
    "id": "56f2c662ec71bc2c6b001040",
    "survey": {
        "value": "any"
    },
    "timestamp": "2016-03-23T16:37:54.765000"
}
```

POST /user/survey

Insert a new User's Survey.

Resource Information

```
Method                  POST
URL                     /api/v1.0/user/survey
Requires authentication? Yes
Requires Role?          Patient, Relative
Requires IC Accepted?   Yes
```

Request Parameters

Parameter	Type	Description
survey	(json file)	RAW JSON file

Response Parameters

Parameter	Type	Description
success	(bool)	Return True if survey was accepted, False if JSON File is not well formatted

Resource Errors

These are the possible errors returned by this endpoint.

status	code	message
403	authorization_required	Authorization header is expected
401	invalid_header	Authorization header must start with Bearer
401	invalid_header	Token not found
401	invalid_header	Authorization header must be Bearer + token
400	token_expired	Token is expired
400	invalid_audience	Incorrect audience
400	invalid_signature	Token signature is invalid
401	unauthorized	Insufficient Roles
401	unauthorized	Consent Information not accepted
405	method_not_allowed	

Example

```
curl \
 -H 'authorization: Bearer YOUR_API_TOKEN' \
```

```
 -X POST -d "{'value': 'any'}" \
'https://ws.msregistry.s3it.uzh.ch/api/v1.0/user/survey'
```

Response

```
{
  "success": true
}
```