MS Registry REST API Resources

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Document Version

Date 2016-04-08

Version v0.3.2

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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 last_seen	(iso 8601 datetime) (iso 8601 datetime)	Datetime the user joined 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
404	not _found	Couldn't found a User with Unique ID={}

Example

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

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

GET /user/consent/info ————

Get 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

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	l (bool)	Physician contact permitted
data_exchange_cohort	(bool)	Data exchange cohort
$medical_record_abstraction$	(bool)	Medical record abstraction

Resource Errors

status	code	message
403 401	$\begin{array}{c} {\rm authorization_required} \\ {\rm invalid_header} \end{array}$	Authorization header is expected Authorization header must start with Bearer

status	code	message
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= $\{\}$

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

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,
    "data_exchange_cohort": true,
    "physician_contact_permitted": 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

Parameter	Type	Description
consent	(bool)	Set True is Informed Consent has been accepted, False otherwise

	Parameter	Type	Description
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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

Example

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

Response

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

GET /diary

Get User's Diary.

Resource Information

Method GET

URL /api/v1.0/diary

Requires authentication? YES

Requires Role? Patient, Relative

Response Parameters

Parameter	Type	Description
diary	(json file)	Return user's Diary. Returned value is a RAW JSON file
timestamp	(iso 8601 datetime)	Datetime the diary was 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/diary'
```

Response

```
{
    "diary": {
         "value": "any"
},
```

```
"timestamp": "2016-03-23T15:03:41.643000" }
```

POST /diary

Write User's Diary or Update it. In case of Update, Backend keeps track of previous Diary versions.

Resource Information

Method POST

URL /api/v1.0/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

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

status	code	message
401	unauthorized	Insufficient Roles
401	unauthorized	Consent Information not accepted

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

Response
{
    "success": true
}
```

GET /survey

Get All Surveys compiled by User.

Resource Information

Method GET
URL /api/v1.0/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 survey	(string) (json file)	Return Survey ID Return User's Survey. Returned value is a RAW JSON file
timestamp	(iso 8601 datetime)	Datetime the survey was inserted

Resource Errors

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

```
curl \
 -H 'authorization: Bearer YOUR_API_TOKEN' \
 'https://ws.msregistry.s3it.uzh.ch/api/v1.0/survey'
Response
{
    "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"
        }
    ]
}
```

${\rm GET\ /survey/get/<id>}$

Get All Surveys compiled by User.

Resource Information

Method GE

URL /api/v1.0/survey/get/<id>

Requires authentication? YE

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
timestamp	(iso 8601 datetime)	RAW JSON file 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' \

^{&#}x27;https://ws.msregistry.s3it.uzh.ch/api/v1.0/survey/get/56f2c662ec71bc2c6b001040'

Response

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

POST /survey

Insert a new User's Survey.

Resource Information

Method POST

URL /api/v1.0/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

status	code	message
403 401	authorization_required invalid_header	Authorization header is expected Authorization header must start with Bearer

status	code	message
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

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

Response
{
    "success": true
}
```