MS Registry REST API Resources

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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 v0.4.1.

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

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

```
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 UniqueID={}

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 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	\mathbf{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
	(5551)	11041041 100024 40001401011

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

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

status	code	message
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

```
{
    "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	\mathbf{Type}	Description
birthdate	(string)	Birthdate in this form %DD.%MM.%YYYY

Parameter	Type	Description
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

'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

Request Parameters

Parameter	Type	Description
from	(iso 8601 datetime)	If used, query returns Diary entries starting from this datetime. It could be used in combination with <i>until</i> parameter
until	(iso 8601 datetime)	If used, query returns Diary entries starting from this datetime. It could be used in combination with from parameter

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 object)	Return User's Diary. Returned value is a JSON object
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?from=2016-04-01T00:00:00.000000&until=201
Response
```

GET /user/diary/<id>

Get User's Diary by Diary ID.

Resource Information

Method GET
URL /api/v1.0/user/diary/<id>

${\tt Requires}$	${\tt authentication?}$
${\tt Requires}$	Role?

YES

Patient, Relative

Request Parameters

Parameter	Type	Description
id	(string)	Diary ID

Response Parameters

Parameter	Type	Description
id diary	(string) (json object)	Return Diary ID Return user's Diary. Returned value is a
timestamp	(iso 8601 datetime)	JSON object 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

-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 object)	Any JSON object

Response Parameters

Parameter	Type	Description
success	(bool)	Return True if diary is accepted

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

status	code	message
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	$method_not_allowed$	

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

Response

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

POST / user / diary / < id >

Update User's Diary by Diary ID.

Resource Information

Method POST
URL /api/v1.0/user/diary/<id>
Requires authentication? YES

Requires Role? Patient, Relative

Request Parameters

Parameter	Type	Description
id	(string)	Diary ID
diary	(json object)	Any JSON object

Response Parameters

Parameter	Type	Description
success	(bool)	Return True if diary is accepted

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' \
  -X POST -d '{"diary": {"any": "value"}}' \
  'https://ws.msregistry.s3it.uzh.ch/api/v1.0/user/diary/56f2c662ec71bc2c6b001040'
```

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

Request Parameters

Parameter	Type	Description
from	(iso 8601 datetime)	If used, query returns Survey entries starting from this datetime. It could be used in combination with <i>until</i> , tags and ongoing parameters
until	(iso 8601 datetime)	If used, query returns Survey entries starting from this datetime. It could be used in combination with <i>from</i> , tags and ongoing parameters
tags	(array)	If used, query returns all entries with declared TAGs. It could be used in combination with <i>from</i> , <i>until</i> and <i>ongoing</i> parameters
ongoing	(bool)	If used, query returns all entries with ongoing value requested. It could be used in combination with from, until and tags parameters

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 object)	Return User's Survey. Returned value is a JSON object
timestamp	(iso 8601 datetime)	Datetime the survey was inserted
tags	(array)	Return list of all TAGs assigned to a Survey entry
ongoing	(bool)	Ongoing value is a boolean flag that refer to completed Surveys

Resource Errors

status	code	message
403	authorization_required	Authorization header is expected

status	code	message
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/user/survey?from=2016-03-01T00:00:00.000000&until=20
Response
{
    "surveys": [
        {
            "id": "56f2c662ec71bc2c6b001040",
            "survey": {
                "value": "any"
            "tags": ["layer2", "other_tag"],
            "ongoing": true,
            "timestamp": "2016-03-03T16:37:54.765000"
        },
            "id": "56f2c7cdec71bc2c6b001041",
            "survey": {
                "value": "any"
            },
            "tags": ["layer3"],
            "ongoing": false,
            "timestamp": "2016-03-12T17:01:57.800000"
        }
   ]
}
```

GET /user/survey/<id>

Get User's Survey by Survey ID.

Resource Information

Method GE

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

Requires authentication? YE

Requires Role? Patient, Relative

Request Parameters

Parameter	Type	Description
id	(string)	Survey ID

Response Parameters

Parameter	Type	Description
$\overline{\mathrm{id}}$	(string)	Return Survey ID
survey	(json object)	Return user's Survey. Returned value is a JSON object
timestamp	(iso 8601 datetime)	Datetime the survey was inserted or updated
tags	(array)	Return list of all TAGs assigned to a Survey entry
ongoing	(bool)	Ongoing value is a boolean flag that refer to completed Surveys

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
404	$\operatorname{not_found}$	Couldn't found a Survey with id={}

```
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"
    },
    "tags": ["layer2", "other_tag"],
    "ongoing": false,
    "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 object)	Any JSON object
tags	(array)	List of all TAGs assigned to this Survey entry. It cannot be null
ongoing	(bool)	Ongoing value is a boolean flag that refer to completed Surveys. It cannot be null

Response Parameters

Parameter	Type	Description
success	(bool)	Return True if Survey is accepted

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 '{"survey": {"value": "any"}, "tags": ["layer2"], "ongoing": true}' \
  'https://ws.msregistry.s3it.uzh.ch/api/v1.0/user/survey'
```

Response

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

${\rm POST~/user/survey/{<}id}{>}$

Update User's Survey by Survey ID.

Resource Information

Method	POST
URL	/api/v1.0/user/survey/ <id></id>

Requires authentication? YES
Requires Role? Patient, Relative

Request Parameters

Parameter	Type	Description
id	(string)	Survey ID
survey	(json object)	Any JSON object
tags	(array)	List of all TAGs assigned to this Survey
		entry. If null, TAGs are not updated
ongoing	(bool)	Ongoing value is a boolean flag that refer
		to completed Surveys. It cannot be null

Response Parameters

Parameter	Type	Description
success	(bool)	Return True if Survey is accepted

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' \
  -X POST -d '{"survey": {"value": "any"}, "tags": ["layer2", "othertag"], "ongoing": true}' \
  'https://ws.msregistry.s3it.uzh.ch/api/v1.0/user/survey/56f2c662ec71bc2c6b001040'
```

Response

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