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 v0.5.0.

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 | $\operatorname{\mathbf{code}}$ | 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

```
{
   "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
}
```