# MS Registry REST API Resources

# Contents

# Document Version

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 **v0.3.0**.

# 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

These are the possible errors returned by this endpoint.

| HTTP Code | Error Identifier | Error 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 |
| 500 | internal_server_error | An error occurred while adding this user |

## Example

```
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 |
| **consent** | (bool) | Has the Informed Consent been accepted? |

| Parameter | Type | Description |
|---|---|---|
| **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.

| HTTP Code | Error Identifier | Error 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 |
| 500 | internal_server_error | An error occurred while adding this user |
| 404 | not_found | User not found |

## Example

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

## Response

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

# GET /user/consent

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

| Parameter | Type | Description |
|-----------|------|-------------|
| **consent** | (bool) | Has the Informed Consent been accepted? |

## Resource Errors

These are the possible errors returned by this endpoint.

| HTTP Code | Error Identifier | Error 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 |
| 500 | internal_server_error | An error occurred while adding this user |
| 401 | unauthorized | Insufficient Roles |

## Example

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

**Response**

```
{
    "consent": 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 |

## 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.

| HTTP Code | Error Identifier | Error 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 |
| 500 | internal_server_error | An error occurred while adding this user |
| 401 | unauthorized | Insufficient Roles |

## Example

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

## Response

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

# GET /user/roles

Get User's Roles.

## Resource Information

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

## Response Parameters

| Parameter | Type | Description |
|-----------|------|-------------|
| **roles** | (array) | Return user's roles stored on OAuth Server. Returned values are: 'doctor', 'guest', 'patient', 'relative', 'researcher'. If no roles are stored on OAuth Server, return empty array. |

## Resource Errors

These are the possible errors returned by this endpoint.

| HTTP Code | Error Identifier | Error Message |
|-----------|------------------|---------------|
| 403 | authorization_required | Authorization header is expected |
| 401 | invalid_header | Authorization header must start with Bearer |

| HTTP Code | Error Identifier | Error 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 |
| 500 | internal_server_error | An error occurred while adding this user |
| 401 | unauthorized | Insufficient Roles |

## Example

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

**Response**

```
{
  "roles": [
    "doctor",
    "patient"
  ]
}
```

# GET /user/lang

Get User's Language.

## Resource Information

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

## Response Parameters

| Parameter | Type | Description |
|-----------|------|-------------|
| **lang** | (string) | Return user's language setting stored on OAuth Server. Returned values are: 'de', 'fr', 'it'. If no language setting is stored on OAuth Server, return default language 'de'. |

## Resource Errors

These are the possible errors returned by this endpoint.

| HTTP Code | Error Identifier | Error 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 |
| 500 | internal_server_error | An error occurred while adding this user |
| 401 | unauthorized | Insufficient Roles |

## Example

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

## Response

```
{
  "lang": "de"
}
```

# 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.

| HTTP Code | Error Identifier | Error 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 |
| 500 | internal_server_error | An error occurred while adding this user |
| 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

These are the possible errors returned by this endpoint.

| HTTP Code | Error Identifier | Error 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 |

| HTTP Code | Error Identifier | Error Message |
|---|---|---|
| 500 | internal_server_error | An error occurred while adding this user |
| 401 | unauthorized | Insufficient Roles |

## Example

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

## Response

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