

Users API v1.1

Common provisions

Terminology

The terminology of [RFC 2119](#) (specifically **must**, **should**, **may** and their negatives) applies. The word **will**, when applied to the Hardware Service API ("the API"), has the same meaning as **must**.

Protocol

The API supports communication over HTTPS only.

Encoding

The API supports communication using JSON encoding only. The client **must** submit the headers `Content-Type: application/json` and `Accept: application/json` for all requests. Failure to do so **will** result in a `415 Unsupported Media Type` response. The API **will** include the header `Content-Type: application/json` with its response.

Authentication

Unless otherwise specified, the endpoints in the API are authenticated by a JWT bearer token. Two token sources are accepted:

- Tokens acquired from the `user/login` endpoint;
- Tokens returned from the Website service's `/token` endpoint as the value of the `access_token` property. See the documentation at [/Website/README.md#Oauth](#).

The client **must** submit the header `Authorization: <JWT>` with all requests. Failure to do so, or submitting an invalid or expired JWT, **will** result in a `401 Unauthorized` response.

General responses

In addition to the AWS API Gateway responses and the specific responses for each endpoint, the server **may** respond with one of the following HTTP responses:

- `400 Bad Request` with `Status` header equal to `InvalidSchema`, if the JSON body of the request does not match the requirements of the endpoint.
- `404 Unknown` with `Status` header equal to `UnknownEndpoint`, if an invalid endpoint was requested.

Schema

Simple

The following simple types **may** be used in responses:

- `string`, `number`, `integer`: as defined in the [JSON Schema](#) standard.

- **Uuid:** a string matching the regular expression `^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}$`, that is, the string representation of an [RFC 4122](#) UUID.
- **Date:** a string matching the regular expression `/\d{4}-\d{2}-\d{2}/` and representing a date in [ISO 8601](#) 'YYYY-MM-DD' format.
- **Datetime:** a string matching the regular expression `/\d{4}-\d{2}-\d{2}T\d{2}:\d{2}:\d{2}Z/` and representing a date and time in full [ISO 8601](#) format.
- **Gender:** one of the strings male, female, mixed or other.
- **Phonenumber:** a string matching the regular expression `TODO`, being a string representation of a phone number

User

A `User` object must have the following schema:

```
{
  "biometric_data": {
    "gender": Gender,
    "height": {
      "ft_in": [integer, integer],
      "m": number
    },
    "mass": {
      "lb": number,
      "kg": number
    }
  },
  "created_date": Datetime,
  "deleted_date": Datetime,
  "id": Uuid,
  "organization_id": Uuid,
  "personal_data": {
    "birth_date": Date,
    "email": string,
    "first_name": string,
    "last_name": string,
    "phone_number": Phonenumber,
    "position": string
  },
  "role": enum,
  "updated_date": Datetime,
  "training_status": enum,
  "teams": [ Team, ... ],
  "training_groups": [ TrainingGroup, ... ]
}
```

The following constraints will apply:

- `personal_data.gender` **must not** be mixed.
- `role` **must** be one of the strings athlete, manager, admin, super_admin, biometrix_admin, subject or consumer.

- `training_status` **must** be one of the strings `full_volume`, `returning_to_full_volume` or `inactive`.

Team

A `Team` object **must** have the following schema:

```
{
  "id": Uuid,
  "name": string,
  "organization_id": Uuid,
  "created_date": Datetime,
  "updated_date": Datetime,
  "athlete_subscriptions": integer,
  "athlete_manager_subscriptions": integer,
  "gender": Gender,
  "sport_id": Uuid
}
```

The following constraints **will** apply:

- `athlete_subscriptions` and `athlete_subscriptions` **must** be a non-negative integer.

TrainingGroup

A `TrainingGroup` object **must** have the following schema:

```
{
  "id": Uuid
}
```

The following constraints **will** apply:

- `device_type` **will** be one of the strings `accessory` or `sensor`.

Endpoints

User

Login

This endpoint can be called by a client, once registered, to acquire credentials with which to access other endpoints. The user **must** have been registered prior to requesting this endpoint.

Query String

The client **must** submit a request to the endpoint `/user/login`.

Request

The client **must** submit a request body containing a JSON object with the following schema:

```
{
  "email": String,
  "password": String
}
```

- `password` **must** be a string containing 8 or more characters, with no leading or trailing spaces.

```
POST /users/1_1/user/login HTTP/1.1
Host: apis.env.fathomai.com
Content-Type: application/json

{
  "email": "fathomai@example.com",
  "password": "ffqkjhrqdkha2"
}
```

Authentication is not required for this endpoint.

Responses

If the authentication was successful, the Service **will** respond with HTTP Status 200 OK, and with a body with the following syntax:

```
{
  "authorization": {
    "expires": String,
    "jwt": String,
    "session_token": String
  },
  "user": User
}
```

- `authorization.jwt` **will** be a String forming a valid JWT Bearer Token.
- `authorization.expires` **will** be a Datetime, representing the time at which the JWT will expire.
- `user` **will** be the User uniquely identified by the supplied email address.

Example response:

```
{
  "authorization": {
    "expires": "2018-04-06:31:19Z",
    "jwt": "eyJraWQ...ajBc4VQ",
    "session_token":
"bf652a1a90f4a3edc0887716c6bc309939a5bf87d1274ad624de0374e3ad1b1e"
  },
  "user": {
    "biometric_data": {
```

```

    "gender": "male",
    "height": {
      "ft_in": [5, 11],
      "m": 1.80
    },
    "mass": {
      "lb": 140,
      "kg": 63.50
    }
  },
  "created_date": "2018-04-05T23:49:52Z",
  "deleted_date": null,
  "id": "5b7f234f-d25d-4799-8a14-23bc909b61dd",
  "organization_id": "f62fbd5b-aafc-436f-b358-be2b34e1fe58",
  "personal_data": {
    "birth_date": "2000-01-01",
    "email": "fathomai@example.com",
    "first_name": "John",
    "last_name": "Smith",
    "phone_number": "9191234567",
    "position": "Quarterback"
  },
  "role": "athlete",
  "updated_date": "2018-04-06T23:49:52Z",
  "training_status": "full_volume",
  "teams": [
    {
      "id": "f87e1deb-f022-4223-acaa-4926b6094343",
      "name": "Womens Soccer",
      "organization_id": "f62fbd5b-aafc-436f-b358-be2b34e1fe58",
      "created_at": "2017-08-15T07:55:39Z",
      "updated_at": "2017-10-16T16:11:34Z",
      "athlete_subscriptions": 10,
      "athlete_manager_subscriptions": 10,
      "gender": "female",
      "sport_id": "8534c4ea-4b37-40a0-a037-cad00cf03f74"
    }
  ],
  "training_groups": [
    {
      "id": "7fa6e26c-e2f5-46e4-bf07-79bfb12ac840"
    }
  ]
}

```

If the authentication was not successful, the Service **will** respond with one of the following HTTP Status codes:

- 400 Unauthorized, if the credentials supplied are not valid
- 404 Not Found, if no user with those credentials was found and the Service is willing to reveal that fact (note that the Service **may** choose to reply with 400 Unauthorized in this instance, for security reasons).

Get

This endpoint allows the client to get information about a user, including the current user.

Query String

The client **must** submit a request to the endpoint `/user/{user_id}`, where `user_id` **must** be either a `Uuid` or the string `me`. If `me` is submitted, the returned results **will** be identified from the authorization header `JWT`.

The request method **must** be `GET`.

Request

This method takes no request body.

Example request:

```
GET /users/1_1/user/me HTTP/1.1
Host: apis.env.fathomai.com
Content-Type: application/json
Authorization: eyJraWQ...ajBc4VQ
```

Response

The Service **will** respond with an HTTP status of `200 OK` and a body with the following syntax:

```
{
  "user": User
}
```

Authorise

This endpoint can be called by a client, which has previously logged in, renew its `JWT` authorisation token. The user **must** have been registered prior to requesting this endpoint.

Query String

The client **must** submit a request to the endpoint `/user/{user_id}/authorise`.

Request

The client **must** submit a request body containing a JSON object with the following schema:

```
{
  "session_token": String
}
```

- `session_token` **must** be a session token string previously returned from a call to `login`.

```
POST /users/1_1/user/e8514489-8de9-47e0-b3d5-b15da244783f/authorise HTTP/1.1
Host: apis.env.fathomai.com
Content-Type: application/json

{
  "session_token":
  "bf652a1a90f4a3edc0887716c6bc309939a5bf87d1274ad624de0374e3ad1b1e"
}
```

Authentication is not required for this endpoint.

Responses

If the authentication was successful, the Service **will** respond with HTTP Status 200 OK, and with a body with the following syntax:

```
{
  "authorization": {
    "expires": String,
    "jwt": String,
  }
}
```

- `authorization.jwt` **will** be a String forming a valid JWT Bearer Token.
- `authorization.expires` **will** be a Datetime, representing the time at which the JWT will expire.

Example response:

```
{
  "authorization": {
    "expires": "2018-04-06:31:19Z",
    "jwt": "eyJraWQ...ajBc4VQ"
  }
}
```

If the authentication was not successful, the Service **will** respond with one of the following HTTP Status codes:

- 400 Unauthorized, if the session token was not (or is no longer) valid
- 404 Not Found, if no user with that uuid was found.

Logout

This endpoint can be called by a client, which has previously logged in, to log out.

Query String

The client **must** submit a request to the endpoint `/user/{user_id}/logout`.

Request

This endpoint takes no request body.

```
POST /users/1_1/user/e8514489-8de9-47e0-b3d5-b15da244783f/logout HTTP/1.1
Host: apis.env.fathomai.com
Content-Type: application/json
```

Responses

If the logout was successful, the Service **will** respond with HTTP Status 200 OK, and with an empty body.

Notify

This endpoint can be called by a client to send a push notification to all the devices affiliated to a given user.

Query String

The client **must** submit a request to the endpoint `/user/{user_id}/notify`.

Request

The client **must** submit a request body containing a JSON object with the following schema:

```
{
  "message": String
}
```

- `message` is the text which **will** be displayed to the user in push notification.

```
POST /users/1_1/user/e8514489-8de9-47e0-b3d5-b15da244783f/notify HTTP/1.1
Host: apis.env.fathomai.com
Content-Type: application/json

{
  "message": "Hello world!"
}
```

Responses

If the request was successful, the Service **will** respond with HTTP Status 200 OK, and with a body with the following syntax:


```
{
  Uuid: {
    "message": String,
    "success": Bool
  },
  ...
}
```

Where each `Uuid` is the id of a `Device` affiliated to the user, and `success` indicates whether the message was successfully sent to that device.

Example response:

```
{
  "0758c0c7-bf2f-4ec7-89a7-926a7eb4ba4c": {
    "message": "Endpoint disabled for device
0758c0c7-bf2f-4ec7-89a7-926a7eb4ba4c",
    "success": false
  },
  "e8514489-8de9-47e0-b3d5-b15da244783f": {
    "message": "Success",
    "success": true
  }
}
```

If the request was not successful, the Service **may** respond with one of the following HTTP Status codes:

- 429 Too Many Requests, if an identical message has already been sent to the user within the throttling period.

Device

Register

This endpoint can be called by a client to register a new mobile device.

Query String

The client **must** submit a request to the endpoint `/device/{device_id}`. The request method **must** be `POST`.

The `device_id` **must** be a `Uuid`, and **must** be unique to the device.

Request

The client **must** submit a request body containing a JSON object with the following schema:

```
{
  "device_type": String,
  "push_notifications": {
    "token": String,
    "enabled" Boolean
  }
}
```

- device_type **must** be either ios or android.
- push_notifications is optional.

```
POST /users/1_1/device/e8514489-8de9-47e0-b3d5-b15da244783f HTTP/1.1
Host: apis.env.fathomai.com
Content-Type: application/json
Authorization: eyJraWQ...ajBc4VQ

{
  "device_type": "ios",
  "push_notifications": {
    "token": "ABCDEF",
    "enabled" true
  }
}
```

Responses

If the registration was successful, the Service **will** respond with HTTP Status 201 Created, and with a body with the following syntax:

```
{
  "certificate": {
    "id": String,
    "pem": String,
    "private_key": String,
    "public_key": String
  },
  "device": {
    "id": Uuid,
    "thing_id": Uuid,
    "type": String
  }
}
```

- certificate.pem, certificate.private_key and certificate.public_key **will** be Strings representing an RSA keypair in PEM format.

Example response:

```
{
  "authorization": {
```

```
    "expires": "2018-04-06:31:19Z",  
    "jwt": "eyJraWQ...ajBc4VQ"  
  }  
}
```

If the authentication was not successful, the Service **will** respond with one of the following HTTP Status codes:

- 400 Unauthorized, if the session token was not (or is no longer) valid
- 404 Not Found, if no user with that uuid was found.