Wasteland API Documentation

API Request

Any requests to the Wasteland server should be a single JSON object in the following format:

```
{
    "auth": request_auth,
    "action": request_action,
    "data": request_data
}
```

Request Authentication

request_auth is a JSON object containing authentication information of the requester. Depending on the method of request, the

content will vary.

Authentication as an administrator:

```
{
  "username": STRING,
  "password": STRING
}
```

Authentication using a QR ID-card:

```
{
  "certificate": STRING
}
```

Authentication using a session code:

```
{
    "session": STRING
}
```

Request Action

request_action is a string describing what the request wants to accomplish. Possible values are:

```
"create" OR "read" OR "update" OR "delete" OR "link" OR null
```

A null value signifies that the request does not want to access the database, but only check if authentication was successful (eg. to get a session code).

Request Data

request_data is an object describing the specifics of the request. The possible contents of this varies depending on the value of

request_action

Create

```
{
  "type": data_type,
  "values": [value_object, ...]
}
```

Read

```
{
  "type": data_type,
  "view": "list" OR "details",
  "ids": [INT, ...] OR null
}
```

The "view" value determines what should be read. A list of accessible objects to the requesting user, or details about specific objects

"ids" should be null if "view" is "list". If view is "details" it should be an array of integer ids of the objects required.

Update

Link

```
{
    "profile": INT,
    "department": INT,
    "link":
    [
      {
            "type": "pictogram" OR "application",
            "id": INT,
            "settings": STRING
      },
            ...
    ],
    "unlink":
    [
      {
            "type": "pictogram" OR "application",
            "id": INT,
      },
            ...
    ]
}
```

Exactly one of department or profile should be set, not both.

```
settings is only used if profile is set, and type is "application"
```

Delete

```
{
    "type": <u>data_type</u>,
    "ids": [INT, ...]
}
```

API Response

The Wasteland server responds to any request with a single JSON object.

```
{
  "status": status_code,
  "errors": [STRING, ...],
  "data": response_data,
  "session": session_info
}
```

Status code

status_code is a string telling how the request went. If unnsuccessful, more details will be written in the errors array. Possible values are:

"OK" Everything went fine.

"SYNTAXERROR" The request did not conform to the json syntax

"BADREQUEST" Keys or types in the request was wrong.

"AUTHFAILED" The authentification details were wrong.

"ACCESSDENIED" The user did not have access to the action or ids requested, or requested ids were not found.

Response Data

depends on the request action of the request, and whether any errors were found. The type and value of data

Errors were found

null

Actions delete, update and link



Action create

[INT, ...] A list of ids of the objects created.

Action read

- If view is details: value object,
- [light_value_object, ...] If view is list:

Session Info

session info is an object containing information about the currently authenticated user and session. It looks like this:

```
"user": INT,
"profile": INT OR null,
"session": STRING (NOT YET IMPLEMENTED)
```

If the request was not successful, this object will be replaced by a null-value.

Data Types

Depending on what is being accessed, different parameters are available.

Updating some fields might have different access rights. (TODO: describe clearly)

OPTIONAL means that create calls does not need to provide this value

RESPONSE ONLY means that create and update calls should not provide this value, but read calls will return it

REQUEST ONLY means the value can be updated and created, but never read.

CONSTANT < means that the value can only be changed on create

"light_value_object" is always response only, in list views

Users

```
"type": "user"
"value_object": {
"id": RESPONSE ONLY INT,
"profile": INT,
"username": CONSTANT STRING,
"profile": CONSTANT INT,
"password": REQUEST ONLY OPTIONAL STRING,
"certificate": REQUEST ONLY OPTIONAL STRING
```

Note: At least one of password or certificate must be defined.

```
"light_value_object": {
"id": INT,
"username": STRING
```

Profiles

```
"type": "profile"
 "value_object": {
  "id": RESPONSE ONLY INT,
  "name": STRING,
  "email": OPTIONAL STRING,
  "department": INT,
  "user": RESPONSE ONLY INT,
  "role": INT,
  "guardian_of": OPTIONAL [INT, ...],
  "address": STRING,
  "phone": OPTIONAL STRING,
  "picture": OPTIONAL STRING,
  "settings": OPTIONAL STRING
 "light_value_object": {
  "id": INT,
  "name": STRING,
  "role": INT
Departments
 "type": "department"
 "value_object": {
  "id": RESPONSE ONLY INT,
  "name": STRING,
```

```
"address": STRING,
"phone": STRING,
"email": STRING,
"subdepartments": OPTIONAL RESPONSE ONLY [INT, ...],
"topdepartment": INT
"light_value_object": {
"id": INT,
"name": STRING
```

Pictograms

```
"type": "pictogram"
```

```
"value_object": {
"id": RESPONSE ONLY INT,
"name": STRING,
"public": BOOL,
"image": OPTIONAL STRING,
"sound": OPTIONAL STRING,
"text": OPTIONAL STRING,
"categories": OPTIONAL [STRING, ...],
"tags": OPTIONAL [STRING, ...]
"light_value_object": {
"id": INT,
"name": STRING,
"categories": [STRING, ...],
"tags": [STRING, ...]
```

Applications

```
"type": "application"
```

```
"value_object": {
    "id": RESPONSE ONLY INT,
    "name": CONSTANT STRING,
    "version": STRING,
    "icon": STRING,
    "package": STRING,
    "activity": STRING,
    "settings": OPTIONAL STRING,
    "description": OPTIONAL STRING
}

"light_value_object": {
    "id": INT,
    "name": STRING
}
```

Categories

```
"type": "category"

"value_object": {
    "id": RESPONSE ONLY INT,
    "name": STRING,
    "colour": STRING,
    "icon": OPTIONAL STRING,
    "topcategory": OPTIONAL INT
}

"light_value_object": {
    "id": INT,
    "name": STRING
    "topcategory": INT
}
```

TODOs

• A special view for pictogram by category