

Begin OÜ data retrieval API

Short description

Following document describes the data retrieval API for Begin OÜ data warehouse. The security is provided by combination of SSL, username/password and session cookies.

API needs special user (username and password), which Begin OÜ will issue. Contact us at support@begin.ee if you need user with API access rights.

antti@begin.ee		Original draft
antti@begin.ee	10.01.2017	Added_hours change
antti@begin.ee	04.03.2017	Add work information
antti@begin.ee	27.04.2017	Add breaks
artur@begin.ee	12.01.2018	Add more information about authentication. Add curl example for auth.

API

Server: <https://user.begin.ee:443>

1) Authentication

GET <https://user.begin.ee:443/login?username=johndoe&password=secret> , reply is redirect to <https://user.begin.ee/api> and JSON

```
{  
    "success": 1  
}
```

Additionally, cookie with session reference is sent. On failure, redirect is done to <https://user.begin.ee/login> .

CURL EXAMPLE

```
curl -c cookie.txt --location https://user.begin.ee/login\?username=johndoe\&password=secret
```

This request saves cookie to cookie.txt file.

Now you can use that saved cookie to make authenticated requests.

```
curl --cookie cookie.txt --location https://user.begin.ee/api
```

To check if session is active and valid - GET <https://user.begin.ee/api> and reply should be JSON when active cookie is also present.

```
{  
    "success": 1  
}
```

2) workers

GET https://user.begin.ee/api/get_workers , reply is JSON

```
{
  "success": 1,
  "data": [{
    "lastname": "Mandela",
    "status": "A",
    "firstname": "Nelson",
    "userid": "6574"
  }, {
    "lastname ": "Bundy",
    "status ": "N",
    "firstname ": "Ted",
    "userid ": "6567"
  }]
}
```

3) objects

GET https://user.begin.ee/api/get_objects , reply is JSON

```
{
  "success": 1,
  "data": [{
    "object_name": "Alcatraz",
    "objectid": "518599",
    "status": "A"
  }, {
    "object_name": "Afterlife",
    "objectid": "393891",
    "status": "A"
  }]
}
```

Additional parameter [includes=true] can be added to get fields **object_code** and **object_addinfo**

GET https://user.begin.ee/api/get_objects?includes=true , reply is JSON

```
{
  "success": 1,
  "data": [{
    "object_name": "Alcatraz",
    "objectid": "518599",
    "status": "A",
    "object_area": "US",
    "object_addinfo": "Notorious prison"
  }, {
    "object_name": "Afterlife",
    "objectid": "393891",
    "status": "A",
    "object_area": "Haven",
    "object_addinfo": "With 40 virgins"
  }]
}
```

4) **work_types**

GET https://user.begin.ee/api/get_work_types

```
{
  "success": 1,
  "data": [{
    "name": "Planeerimine",
    "id": "46775"
  }, {
    "id": "71130",
    "name": "Aiatood"
  }]
}
```

5) works

GET https://user.begin.ee/api/get_works

```
{
  "data": [{
    "id": "46794",
    "price": "10",
    "unit": "h",
    "work_name": "Mööbli paigaldus"
  }, {
    "price": "8",
    "id": "46796",
    "work_name": "Akna paigaldus",
    "unit": "m2"
  }],
  "success": 1
}
```

6) materials

GET https://dev2.begin.ee/api/get_materials

```
{
  "success": 1,
  "data": [{
    "name": "liim",
    "price": "2",
    "id": "13",
    "unit": "m2"
  }, {
    "price": "2",
    "id": "14",
    "name": "kruvid",
    "unit": "tk"
  }]
}
```


7) events

GET https://user.begin.ee/api/get_simple_data?from=201411110600&to=201411110700 ,
reply is JSON

```
{
  "data": [{
    "logout": "201411111407",
    "login": "201411110611",
    "objectid": "393891",
    "companyid": "170",
    "added_hours": "01:15",
    "userid": "8168",
    "breaks": "00:30"
  }]
}
```

Additional parameter [include_work=true] shows work done during events

GET https://user.begin.ee/api/get_simple_data?from=201703010000&to=201703312359&include_work=true

```
{
  "data": [{
    "companyid": 17,
    "userid": 19718,
    "objectid": null,
    "login": "201703022200",
    "logout": "201703022200",
    "Breaks": "00:30",
    "added_hours": "00:00",
    "work_type_id": 71130,
    "work_id": 71132,
    "work_units": 12,
    "materials": [{
      "material_id": 21,
      "units": 1
    }, {
      "material_id": 14,
      "units": 42
    }, {
      "material_id": 20,
      "units": 6
    }]
  }]
}
```

Additional parameter [userid] narrows the result down to a certain worker. Can be used in combination with parameter [include_work]

GET https://user.begin.ee/api/get_simple_data?from=201411110600&to=201411110700&userid=8168 ,

```
{
  "data": [{
    "logout": "201411111407",
    "login": "201411110611",
    "objectid": "393891",
    "companyId": "170",
    "added_hours": "00:00",
    "userid": "8168"
  }]
}
```

Additional notes

- 1) logout can be empty on two occasions: worker forgot to close the work or the worker has yet to close the work in the future
- 2) Time format is YYYYMMDDHH24MI, all timestamps are in timezone UTC
- 3) Worker statuses: A - active, R - archived, N - inactive
- 4) Object statuses: A - active, R - archived, P - suspended