Geoprospectors „Topsoil Mapper as a Service" TaaS API documentation.

December 21st 2021

Hosts:

Token & Data Service: https://service.geoprospectors.com:8091/API

AUTHENTICATE

The API uses bearer token to authenticate a request. POST a mail address and the password to the token service will issue an access token.

requestToken

https://{host service}/authenticate/requestToken (Post Request)

```
{
        "email": {emailadress}
        "pwd": {password}
}
```
Response:
```
{
        "User Name": {User Name, first last}
        "Company": {Company Name}
        "Systems": {[System SN]}
        "userclass": {userclass number}
        "Mail": {mail address}
        "Access Token": {token}
        "CustNr": {Customer Number}
        "issued": {date}
        "expires": {date}
}
```

Example response:

```
{
    "User Name":"Max Mustermann",
    "Company":"Muster GmbH",
    "Systems":["TSM-000","TSM-001"],
    "userclass":"5",
    "Mail":"mm@geoprospectors.com",
    "Access Token":"W7M4ABoaGhoiAfDdnDlwqHXKqLzs5dN5Spq5lE2108jPC7ZIXiop
            +HDUHZCmGavE\n1nUFYwp/U+W/u//PhqAZ6+
            vOkLJpcbslUYU4NLUqsCnQxnbOqTx9kCsuJxaCs/+
            I\n+rPVuJVaDX8VCZ30ObaTwrmDU2YWanS4VXLX",
    "CustNr":"1",
    "issued":"01.10.2021-13:12",
    "expires":"01.10.2021-13:22"
}
```

refreshToken

https://{host service}/authenticate/requestToken (Post Request)

Request

```
{
        "Access Token": {Token}
}
Response:
{
        "status": {[Status]}
}
```

Example response:

```
{
        Tokenupdated
}
```

SERVICE ORDER

requestJobList

https://{Host Service}/ServiceOrder/requestJobList (Post Request)

Request

```
{
        "Access Token": {Token}
        "SN": {Serial Number}
        "selector": {number}
}
```

Response: {GeoJSON}

```
{
"type": "Point",
        "coordinates": {XX,YY}
        "properties": {properties
}
```

Example response:

```
[
    {"type": "FeatureCollection",
     "features": [
        {"type": "Feature",
         "geometry": {"type": "Point", "coordinates": [ 47.135445,16.16.88135]},
         "properties":
                {
                "JobID": "177",
                "Field Name": "Testfield",
                "Area": "23.15",
                "Date": "09/08/2020/13:11:31,4"
```

Version:	1.1	Bearbeiter:	PM	
Datum:	21.12.2021	Pfad:	API Docoumentation.docx	Seite 2 von 4

```
            }
        }]
    }
]
```

requestECaData

https://{Host Service}/ServiceOrder/requestECaData (Post Request)

remark: only those JobIDs with the corresponding user privileges (Serial Number) can be requested. Valid Serial Number per user can be request wile Token request.

Request

```
{
        "Access Token": {Token}
        "JobID": {JobID}
}
```

Response: {GeoJSON}

```
{
"type": "Point",
        "coordinates": {XX,YY}
        "properties": {properties}
}
```

Example response:

```
[
    {"type": "FeatureCollection",
     "features": [
        {"type": "Feature",
         "geometry": {"type": "Point", "coordinates": [ 47.135445,16.16.88135]},
         "properties":
                {
                "ECaR1": "8.1",
                "ECaR2": "12.2",
                "ECaR3": "14.8",
                "ECaR4": "17.4"
                }
        }]
    }
]
```

requestECaZones

https://{Host Service}/ServiceOrder/requestECaZones (Post Request)

remark: only those JobIDs with the corresponding user privileges (Serial Number) can be requested. Valid Serial Number per user can be request wile Token request.

Request

```
{
```

```
        "Access Token": {Token}
        "JobID": {JobID}
}

Response: {GeoJSON}

{
"type": "Polygon",
        "coordinates": {XX,YY}
        "properties": {properties}
}

Example response:

[
    {"type": "FeatureCollection",
     "features": [
        {"type": "Feature",
         "geometry": {"type": "Polygon", "coordinates": [ 47.135445,16.16.88135 ...]},
         "properties":
                {
                "Zone": "1",
                }
        }]
    }
]
```

D R A F T – for evaluation purposes only