

## Geoprospectors „Topsoil Mapper as a Service” TaaS API documentation.

October 1<sup>st</sup> 2021

### Hosts:

Token Service: **<https://api.geoprospectors.com:9081>**

Data Service: **<https://api.geoprospectors.com:9082>**

## 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 Token service}/Service/authenticate/requestToken> (Post Request)

```
{
  "email": {emailaddress}
  "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": "W7M4ABoaGhoiAfDdnDlwqHXXkqLzs5dN5Spq5lE2108jPC7ZlXiop
    +HDUHZCmGavE\n1nUFYwp/U+W/u//PhqAZ6+
    vOkLjpcbslUYU4NLUqsCnQxbOqTx9kCsuJxaCs/+
    I\n+rPVuJVaDX8VCZ30ObaTwrmDU2YWanS4VXLX",
  "CustNr": "1",
  "issued": "01.10.2021-13:12",
  "expires": "01.10.2021-13:22"
}
```

**refreshToken**
<https://{host Token service}/Service/authenticate/requestToken> (Post Request)

Request

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

Response:

```
{
  "status": {[Status]}
}
```

Example response:

```
{
  Tokenupdated
}
```

**SERVICE ORDER****requestJobList**
<https://{Data Service 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"
        }
      }
    ]
  }
]
```

```

    }
  }
}

```

### requestECaData

<https://{Data Service 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"
          }
      }
    ]
  }
]

```