

Example requests - FishInfo Reporting API

Here are a few example requests for the FishInfo Reporting API.

To get the appropriate permissions for your client to use device flow you have to contact us by mail.

1. Get profile

```
curl 'https://www.barentswatch.no/bwapi/v3/geodata/fishingfacilityprofile' \  
-H 'Accept: application/json, text/plain, */*' \  
-H 'Authorization: bearer <access_token>'
```

Example response:

```
{  
  "haveProfile": true,  
  "haveDownloadRights": true,  
  "contactPersonDetail": {  
    "id": "string",  
    "firstName": "Ola ",  
    "lastName": " Nordmann",  
    "phoneNumber": "98990099",  
    "email": "ola.nordmann@example.com"  
  },  
  "vesselInfo": {  
    "vesselId": "baeeb81b-85d1-4303-9cfa-6ceaba72793d",  
    "mmsi": 257001000,  
    "imo": 9144081,  
    "ircs": "LAMA",  
    "regNum": "N-238-Ø",  
    "sbrRegNum": null,  
    "vesselName": "Havbris",  
    "vesselPhone": "20990099",  
    "vesselEmail": "string"  
  }  
}
```

This gets the FishInfo profile of the logged in user. "haveDownloadRights" must be true to get extended info about fishing facilities.

"haveProfile" must be true to send reports. The user can only send reports for the vessel in the profile.

2. Get reports and tools for the user

```
curl 'https://www.barentswatch.no/bwapi/v3/geodata/fishingfacilitychanges' \  
-H 'Accept: application/json, text/plain, */*' \  
-H 'Authorization: bearer <access_token>'
```

The user may use several devices to access the same data. For example the [barentswatch.no/fiskinfo](https://www.barentswatch.no/fiskinfo) website, the Sintef Fiskinfo app, and a chart plotter. This endpoint lists all tools and any pending reports.

Confirmed tools: This is tools that have been confirmed, and are visible to all who download the fishing facilities dataset.

Pending reports: Reports that that are waiting to be confirmed.

Failed reports: Reports that were not sent to KVS because they failed. This should normally not happen.

3. Report a tool as retrieved

This should be one of the tools from confirmed_tools list from the fishingfacilitychanges-endpoint:

```
curl 'https://www.barentswatch.no/bwapi/v3/geodata/fishingfacilitychange/retrieved'
-H 'Accept: application/json, text/plain, */*' \
-H 'Content-Type: application/json;charset=utf-8' \
-H 'Authorization: bearer <token>' \
--data-raw '{"toolId":"3fa85f64-5717-4562-b3fc-2c963f66afa6","removeddatetime":"2020-09-22T12:15:49.641Z"}'
```

After sending a report, the client should refresh the data from the fishingfacilitychanges-endpoint.

4. Report a new tool as deployed

To report a new tool as deployed:

```
curl 'https://www.barentswatch.no/bwapi/v3/geodata/fishingfacilitychange/deployed' \
-H 'Content-Type: application/json;charset=utf-8' \
-H 'Authorization: bearer <token>' \
--data-raw '{
  "toolTypeCode": "NETS",
  "geometry": {"type":"Point","coordinates":[30,10]},
  "setupTime": "2021-12-13T09:49:56.607Z",
  "toolCount": 15
}'
```

After sending a report, the client should refresh the data from the fishingfacilitychanges-endpoint.

Device login

Login with a client that is set up with device flow.

1. Start login

When a user wants to log in, the device should make a request to the deviceauthorization endpoint:

```
curl --location --request POST 'https://id.barentswatch.no/connect/deviceauthorization' \
--header 'Content-Type: application/x-www-form-urlencoded' \
--data-urlencode 'client_id=MyClientId' \
--data-urlencode 'scope=api offline_access'
```

Response:

Expires_in (seconds) is expiration time for the access_token (1 hour).

Refresh tokens

When the access token expires, the tokens can be refreshed using the refresh_token:

```
curl --location --request POST 'https://id.barentswatch.no/connect/token' \  
--header 'Content-Type: application/x-www-form-urlencoded' \  
--data-urlencode 'refresh_token=y255GMDNpgn12345UiNQkAYdlcZL-sqmfhjm7xS9bGY' \  
--data-urlencode 'client_id=MyClientId' \  
--data-urlencode 'grant_type=refresh_token'
```

Response:

```
{  
  "access_token": "eyJhbGciOiJSUzI1NiIsImtpZSI6ImtpZ518VuQGdQGCSG1YAK01d_slyBWnrYohhRFj6wY9GwVXxF7kTadpJlaE",  
  "expires_in": 3600,  
  "token_type": "Bearer",  
  "refresh_token": "SH2bboSkkRPAOkY19627TChzBwdNRvALyen_psqJw7U",  
  "scope": "api offline_access"  
}
```

The access_token is used in the authorization header as bearer token when the device is making requests to the api.

The new refresh_token must be stored with the device and replaces the refresh_token used to perform the request. The old refresh_token is no longer valid.