

# Hjertestarterregister API Reference

This document contains information about the application programming interfaces (APIs) offered by Hjertestarterregister to developers.

- [Asset Search](#)
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## General

The API uses a REST-style interface over HTTP(S). The API endpoint is `https://www.113.no/ords/api/v1/` and all paths below are relative to that. Different endpoints may exist for test environments.

All requests must be made over HTTPS (HTTP requests will return an error). Note that test environments may be configured to accept insecure (HTTP) requests to facilitate testing and troubleshooting.

Developers may use command-line tools such as `curl` or browser plugins such as `RESTClient` for Firefox to test the API.

## Authentication

The API uses OAuth for authentication. To use the API you need a valid Client ID and Client Secret. Please contact the system administrator to obtain valid credentials. If a Client ID or Client Secret has been compromised, new keys can be issued by the system administrator.

The OAuth endpoint to obtain access tokens is `https://www.113.no/ords/api/oauth/token`.

A sample request to obtain an access token looks like this:

```
curl -i --user your_client_id:your_client_secret --data "grant_type=client_credentials" https://www.113.no/ords/api/oauth/token
```

If successful, the above call will return the following, where `your_token` is the access token to be used for further requests:

```
{ "access_token": "your_token", "token_type": "bearer", "expires_in": 3600 }
```

## Request Format

The API receives HTTP requests using different verbs (GET, PUT, POST and DELETE). Parameters may be passed as part of the URL in GET requests. For other requests, parameters should be passed as JSON in the request body.

A sample request looks like this:

```
curl https://www.113.no/ords/api/v1/assets/
```

## Response Format

The API always returns a JSON object with the Content-Type set to `application/json`. If the request was successful, the requested object is returned. If the call fails, a JSON object is returned with details about the error.

Unless otherwise noted, date values are represented using the [ISO 8601](#) format, as local time (without a time zone designator), for example `2014-01-20T12:57:00`. Booleans are represented with `y` for true and `n` for false.

Example Response:

```
[ {
  "API_MESSAGE": "Some message here."
}]
```

In addition to return values specific to each service operation, the following return values are common to all successful calls:

Property	Description
<code>API_CURRENT_USER_ID</code>	The identifier of the currently authenticated user.
<code>API_MESSAGE</code>	A text string containing more information about the result of the call.

## Error Handling

The following return values are used when the call results in an error:

Property	Description
<code>API_ERROR</code>	A text string containing more information about the error.

# Asset Search

## Search for assets

This call searches for assets (AEDs) matching the given search criteria.

GET    `assets/search/`

The call has the following parameters:

Parameter	Description	Required	Default
<code>max_rows</code>	A number that restricts the total number of returned rows.	No	5000
<code>from_row</code>	A number that specifies the starting row. Ignored if used in combination with <code>latitude</code> , <code>longitude</code> and <code>distance</code> parameters.	No	
<code>to_row</code>	A number that specifies the ending row. Ignored if used in combination with <code>latitude</code> , <code>longitude</code> and <code>distance</code> parameters.	No	

updated_since	A date that restricts the rows to those modified since the given date.	No
latitude	A number that specifies the latitude of the point of origin for the search. Must be used in combination with longitude and distance.	No
longitude	A number that specifies the longitude of the point of origin for the search. Must be used in combination with latitude and distance.	No
distance	A number that specifies the distance (in meters) to search from the point of origin. Must be used in combination with latitude and longitude.	No
date	A date that is used to evaluate the opening hours.	No

The call returns the following:

Property	Description
ASSETS	A list of assets matching the search criteria.

Example Request:

```
curl https://www.113.no/ords/api/v1/assets/search/?max_rows=2
```

Example Response:

```
{
  "API_MESSAGE": "Request successful."
, "API_CURRENT_USER_ID": 100
, "ASSETS": [
    {
      "ASSET_ID": 5196
    , "ASSET_GUID": "48F3A281F46C81E7E050020A0FCA913B"
    , "SITE_LATITUDE": 58.8973289
    , "SITE_LONGITUDE": 5.697326200000002
    , "SITE_NAME": "Bouvet Norge AS"
    , "SITE_ADDRESS": "Fabrikkveien 10"
    , "SITE_FLOOR_NUMBER": 1
    , "SITE_POST_CODE": "4033"
    , "SITE_POST_AREA": "Stavanger"
    , "SITE_DESCRIPTION": "Forus, ca. 250m fra Tvedtsenteret"
    , "CREATED_DATE": "2017-02-20T19:12:35Z"
    , "MODIFIED_DATE": "2017-03-29T11:34:32Z"
    , "IS_OPEN": "Y"
    , "IS_OPEN_DATE": "2017-07-05T10:19:05Z"
    , "OPENING_HOURS_TEXT": "\u00C5pent"
    , "OPENING_HOURS_LIMITED": "N"
    , "OPENING_HOURS_MON_FROM": 800
    , "OPENING_HOURS_MON_TO": 1600
    , "OPENING_HOURS_TUE_FROM": 800
    , "OPENING_HOURS_TUE_TO": 1600
    , "OPENING_HOURS_WED_FROM": 800
    , "OPENING_HOURS_WED_TO": 1600
    , "OPENING_HOURS_THU_FROM": 800
    , "OPENING_HOURS_THU_TO": 1600
    , "OPENING_HOURS_FRI_FROM": 800
    , "OPENING_HOURS_FRI_TO": 1600
    , "OPENING_HOURS_CLOSED_HOLIDAYS": "N"
    , "ACTIVE_DATE_LIMITED": "N"
    }
  , {
      "ASSET_ID": 300
    , "ASSET_GUID": "4A9DF0EDB6170B6FE050C7807D210654"
    , "SITE_LATITUDE": 59.90759329999999
    , "SITE_LONGITUDE": 10.752594799999997
    , "SITE_NAME": "test"
    , "SITE_ADDRESS": "Kirsten Flagstads Plass 1"
    , "SITE_FLOOR_NUMBER": 1
    , "SITE_POST_CODE": "0150"
    , "SITE_POST_AREA": "OSLO"
    , "SITE_DESCRIPTION": "P\u00E5 den fine scenen."
    , "CREATED_DATE": "2017-03-13T14:46:41Z"
    , "MODIFIED_DATE": "2017-03-29T11:34:30Z"
    , "IS_OPEN": "Y"
    , "IS_OPEN_DATE": "2017-07-05T10:19:05Z"
    , "OPENING_HOURS_TEXT": "\u00C5pent"
    , "OPENING_HOURS_LIMITED": "N"
    , "OPENING_HOURS_MON_FROM": 800
    , "OPENING_HOURS_MON_TO": 1600
    , "OPENING_HOURS_TUE_FROM": 800
    , "OPENING_HOURS_TUE_TO": 1600
    , "OPENING_HOURS_WED_FROM": 800
    , "OPENING_HOURS_WED_TO": 1600
    , "OPENING_HOURS_THU_FROM": 800
    , "OPENING_HOURS_THU_TO": 1600
    , "OPENING_HOURS_FRI_FROM": 800
    , "OPENING_HOURS_FRI_TO": 1600
    , "OPENING_HOURS_CLOSED_HOLIDAYS": "N"
    , "ACTIVE_DATE_LIMITED": "N"
    }
  ]
}
```

# My Assets

## Get my assets

This call retrieves the assets (AEDs) belonging to the current user.

```
GET assets/
```

The call returns the following:

Property	Description
ASSETS	A list of assets belonging to the current user. Note that this list may contain restricted information, such as access codes, that is not included in the assets/search/ method.

Example Request:

Example Response:

```
{
  "API_MESSAGE": "Request successful."
  , "API_CURRENT_USER_ID": 100
  , "ASSETS": [
    {
      "ASSET_ID": 116
      , "ASSET_GUID": "437865F156B69927E050020A0FCAE37E"
      , "SERIAL_NUMBER": "fgff3444"
      , "ASSET_TYPE_ID": 101
      , "ASSET_TYPE_NAME": "Powerheart AED G3 Semi-Automatic"
      , "PURCHASE_DATE": "2016-12-01T00:00:00Z"
      , "CHILD_MODE": "N"
      , "ACTIVE": "Y"
      , "ASSET_STATUS": "MISSING_INFO"
      , "ACTIVE_DATE_LIMITED": "N"
      , "OPENING_HOURS_CLOSED_HOLIDAYS": "Y"
      , "OPENING_HOURS_LIMITED": "N"
      , "SITE_LATITUDE": 59.9148954
      , "SITE_LONGITUDE": 10.717139200000002
      , "SITE_ADDRESS": "bygd\u00F8y alle 1"
      , "CREATED_DATE": "2017-02-20T19:12:14Z"
      , "MODIFIED_DATE": "2017-03-13T15:28:53Z"
    }
    , {
      "ASSET_ID": 198
      , "ASSET_GUID": "48174CAC5E1855FBE050020A0FCA55F7"
      , "SERIAL_NUMBER": "456"
      , "ASSET_TYPE_ID": 102
      , "ASSET_TYPE_NAME": "LIFEPAK 1000"
      , "PURCHASE_DATE": "2017-02-05T00:00:00Z"
      , "BATTERY_EXPIRY_DATE": "2017-03-18T00:00:00Z"
      , "ELECTRODE_EXPIRY_DATE": "2017-12-30T00:00:00Z"
      , "CHILD_MODE": "N"
      , "ACTIVE": "Y"
      , "ASSET_STATUS": "MISSING_INFO"
      , "ACTIVE_DATE_LIMITED": "N"
      , "OPENING_HOURS_CLOSED_HOLIDAYS": "N"
      , "OPENING_HOURS_LIMITED": "N"
      , "SITE_LATITUDE": 58.897120128994914
      , "SITE_LONGITUDE": 5.697931945323944
      , "SITE_NAME": "testa oppdatere fra API"
      , "SITE_ADDRESS": "adresse ny"
      , "SITE_POST_CODE": "4018"
      , "SITE_POST_AREA": "Stavanger"
      , "SITE_FLOOR_NUMBER": 7
      , "SITE_DESCRIPTION": "beskrivelse av plassering (oppdatert)"
      , "SITE_ACCESS_INFO": "informasjon for n\u00F8detat her (oppdatert xxx)"
      , "CREATED_DATE": "2017-02-20T19:12:14Z"
      , "MODIFIED_DATE": "2017-03-13T15:28:54Z"
    }
    , {
      "ASSET_ID": 329
      , "ASSET_GUID": "4AFD332E8246B47CE050C7807D215904"
      , "SERIAL_NUMBER": "43217"
      , "ASSET_TYPE_ID": 102
      , "ASSET_TYPE_NAME": "LIFEPAK 1000"
      , "PURCHASE_DATE": "2015-08-10T00:00:00Z"
      , "BATTERY_EXPIRY_DATE": "2017-12-27T00:00:00Z"
      , "ELECTRODE_EXPIRY_DATE": "2017-12-30T00:00:00Z"
      , "BATTERY_OK": "Y"
      , "CHILD_MODE": "N"
      , "ACTIVE": "N"
      , "ASSET_STATUS": "CONFIRMED"
      , "ACTIVE_DATE_LIMITED": "N"
      , "OPENING_HOURS_CLOSED_HOLIDAYS": "N"
      , "OPENING_HOURS_LIMITED": "N"
      , "SITE_LATITUDE": 64.22169970334694
      , "SITE_LONGITUDE": 10.3290698643832
      , "SITE_NAME": "Audun test 37"
      , "SITE_ADDRESS": "Pilestredet 30"
      , "SITE_POST_CODE": "0130"
      , "SITE_POST_AREA": "Oslo"
      , "SITE_DESCRIPTION": "Bak skranken"
      , "SITE_ACCESS_INFO": "koden f\u00E5r du ikke"
      , "CREATED_DATE": "2017-03-18T09:02:50Z"
      , "MODIFIED_DATE": "2017-03-29T11:34:30Z"
    }
  ]
}
```

Get one asset

This call retrieves information about a specific asset.

```
GET assets/{GUID}
```

The call has the following parameters:

Parameter	Description	Required	Default
GUID	The unique identifier for a specific asset.	Yes	

The call returns the following:

Property	Description
ASSETS	A list of assets containig only one item, as specified by the GUID parameter.

Example Request:

```
curl https://www.113.no/ords/api/v1/assets/437865F156B69927E050020A0FCAE37E
```

Example Response:

```
{
  "API_MESSAGE": "Request successful."
, "API_CURRENT_USER_ID": 100
, "ASSETS": [
  {
    "ASSET_ID": 116
    , "ASSET_GUID": "437865F156B69927E050020A0FCAE37E"
    , "SERIAL_NUMBER": "fgff3444"
    , "ASSET_TYPE_ID": 101
    , "ASSET_TYPE_NAME": "Powerheart AED G3 Semi-Automatic"
    , "PURCHASE_DATE": "2016-12-01T00:00:00Z"
    , "CHILD_MODE": "N"
    , "ACTIVE": "Y"
    , "ASSET_STATUS": "MISSING_INFO"
    , "ACTIVE_DATE_LIMITED": "N"
    , "OPENING_HOURS_CLOSED_HOLIDAYS": "Y"
    , "OPENING_HOURS_LIMITED": "N"
    , "SITE_LATITUDE": 59.9148954
    , "SITE_LONGITUDE": 10.71713920000002
    , "SITE_ADDRESS": "bygd\u00F8y alle 1"
    , "CREATED_DATE": "2017-02-20T19:12:14Z"
    , "MODIFIED_DATE": "2017-03-13T15:28:53Z"
  }
]
}
```

## Activate asset

This call activates a specific asset.

**PUT** assets/{GUID}/active

The call has the following parameters:

Parameter	Description	Required	Default
GUID	The unique identifier for a specific asset.	Yes	

**Note:** For PUT requests, the request body cannot be empty. Use a dummy request body value when using PUT:

```
{ "dummy": 42 }
```

Example Request:

```
curl -X PUT -H "Content-Type: application/json" -d '{"dummy":42}' https://www.113.no/ords/api/v1/assets/437865F156B69927E050020A0FCAE37E/active
```

Example Response:

```
{
  "API_MESSAGE": "Asset updated successfully."
}
```

## Deactivate asset

This call deactivates a specific asset.

**PUT** assets/{GUID}/inactive

The call has the following parameters:

Parameter	Description	Required	Default
GUID	The unique identifier for a specific asset.	Yes	

**Note:** For PUT requests, the request body cannot be empty. Use a dummy request body value when using PUT:

```
{ "dummy": 42 }
```

Example Request:

```
curl -X PUT -H "Content-Type: application/json" -d '{"dummy":42}' https://www.113.no/ords/api/v1/assets/437865F156B69927E050020A0FCAE37E/inactive
```

Example Response:

```
{
  "API_MESSAGE": "Asset updated successfully."
}
```

## Delete asset

This call deletes a specific asset.

**DELETE** assets/{GUID}

The call has the following parameters:

Parameter	Description	Required	Default
GUID	The unique identifier for a specific asset.	Yes	

**Note:** For DELETE requests, the request body cannot be empty. Use a dummy request body value when using DELETE:

```
{ "dummy": 42 }
```

Example Request:

```
curl -X DELETE -H "Content-Type: application/json" -d '{"dummy":42}' https://www.113.no/ords/api/v1/assets/437865F156B69927E050020A0FCAE37E
```

Example Response:

```
{
  "API_MESSAGE": "Asset deleted."
, "ASSET": {
  "ASSET_ID": 116
, "ASSET_GUID": "437865F156B69927E050020A0FCAE37E"
}
}
```

Create asset

This call creates a new asset.

```
POST  assets/
```

The call has the following parameters:

Parameter	Description	Required	Default
GUID	The unique identifier for a specific asset.	Yes	

An asset is defined by the following attributes:

Attribute	Description	Data Type	Remarks
asset_guid	Unique identifier	string	Is automatically assigned when new asset is created.
serial_number	Serial number	string(255)	
site_name	Name of the asset's position	string(255)	
site_latitude	Latitude	number	
site_longitude	Longitude	number	
site_address	Address	string(255)	
site_floor_number	Floor number	number	
site_post_code	Postal code	string(255)	
site_post_area	Postal area	string(255)	
site_description	Description of asset location	string(4000)	
site_access_info	Restricted info such as access codes	string(255)	This information will not be shown in public search
asset_type_name	Asset type name (product name)	string(255)	
manufacturer_name	Manufacturer name	string(255)	
purchase_date	Purchase date	date	
battery_expiry_date	Battery expiry date	date	
electrode_expiry_date	Electrode expiry date	date	
child_mode	Does the asset have a child mode? (Y/N)	boolean	
child_electrode_expiry_date	Child electrode expiry date	date	
battery_ok	Is the battery OK? (Y/N)	boolean	
active_date_limited	Is the active date limited? (Y/N)	boolean	
active_from_date	Active from date	date	
active_to_date	Active to date	date	
opening_hours_closed_holidays	Is the location closed during public holidays? (Y/N)	boolean	
opening_hours_limited	Are opening hours limited? (Y/N)	boolean	
opening_hours_mon_from	Opening hours: Mondays from	number	
opening_hours_mon_to	Opening hours: Mondays to	number	
opening_hours_tue_from	Opening hours: Tuesdays from	number	
opening_hours_tue_to	Opening hours: Tuesdays from	number	
opening_hours_wed_from	Opening hours: Wednesdays from	number	
opening_hours_wed_to	Opening hours: Wednesdays from	number	
opening_hours_thu_from	Opening hours: Thursdays from	number	
opening_hours_thu_to	Opening hours: Thursdays from	number	
opening_hours_fri_from	Opening hours: Fridays from	number	
opening_hours_fri_to	Opening hours: Fridays from	number	
opening_hours_sat_from	Opening hours: Saturdays from	number	
opening_hours_sat_to	Opening hours: Saturdays from	number	
opening_hours_sun_from	Opening hours: Sundays from	number	
opening_hours_sun_to	Opening hours: Sundays from	number	

Example Request:

```
curl -X POST -H "Content-Type: application/json" -d '{ "serial_number": "123", "site_name": "tester fra API", "site_latitude": 58.897120128994914, "site_longitude": 15.2401056994914, "asset_type_name": "Asset type", "manufacturer_name": "Manufacturer", "purchase_date": "2023-01-01", "battery_expiry_date": "2023-12-31", "electrode_expiry_date": "2023-12-31", "child_mode": false, "child_electrode_expiry_date": "2023-12-31", "battery_ok": true, "active_date_limited": false, "active_from_date": "2023-01-01", "active_to_date": "2023-12-31", "opening_hours_closed_holidays": false, "opening_hours_limited": false, "opening_hours_mon_from": 0, "opening_hours_mon_to": 23, "opening_hours_tue_from": 0, "opening_hours_tue_to": 23, "opening_hours_wed_from": 0, "opening_hours_wed_to": 23, "opening_hours_thu_from": 0, "opening_hours_thu_to": 23, "opening_hours_fri_from": 0, "opening_hours_fri_to": 23, "opening_hours_sat_from": 0, "opening_hours_sat_to": 23, "opening_hours_sun_from": 0, "opening_hours_sun_to": 23 }
```

Example Response:

```
{
  "API_MESSAGE": "New asset created."
, "ASSET": {
  "ASSET_ID": 116
, "ASSET_GUID": "437865F156B69927E050020A0FCAE37E"
, "OWNER_USER_ID": 100
}
}
```

Update asset

This call updates an existing asset.

```
PUT  assets/{GUID}
```

The call has the following parameters:

Parameter	Description	Required Default
GUID	The unique identifier for a specific asset. Yes	

**Note:** See the list of attributes in the "Create asset" call above for valid attributes.

Example Request:

```
curl -X PUT -H "Content-Type: application/json" -d '{ "serial_number": "123", "site_name": "oppdatert fra API", "site_latitude": 58.897120128994914, "s
```

Example Response:

```
{
  "API_MESSAGE": "Asset updated successfully."
, "ASSET": {
  "ASSET_ID": 116
, "ASSET_GUID": "437865F156B69927E050020A0FCAE37E"
}
}
```

# Messages

## Create message

This call sends a message to the asset owner.

```
POST assets/{GUID}/message
```

The call has the following parameters:

Parameter	Description	Required Default
GUID	The unique identifier for a specific asset. Yes	

A message is defined by the following attributes:

Attribute	Description	Data Type	Remarks
message_title	The message title	string	
message_body	The message body	string	
send_via	The transmission type	string	Valid values are EMAIL and SMS. If no value is specified, it defaults to EMAIL.

Example Request:

```
curl -X POST -H "Content-Type: application/json" -d '{ "message_title": "Hello from Hjertestarterregister", "message_body": "some text here" }' https://
```

Example Response:

```
{
  "API_MESSAGE": "Message added to message queue created."
, "ASSET": {
  "ASSET_ID": 116
, "ASSET_GUID": "437865F156B69927E050020A0FCAE37E"
}
}
```