JNCC Marine Noise Registry

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REST API

Documentation for Third Parties



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Introduction

This document describes the REST API to the JNCC Marine Noise Registry application being developed by Tron Systems Ltd. on behalf of JNCC. The API covers creation and close-out of activities.

The Marine Noise Registry application is not yet hosted on a live server. This document will be updated when a server is implemented.

# Versioning

The current API is Version 1. Other applications should build to this version only when it is hosted on a live server and only with authorisation from JNCC, as the API may still be subject to change.

Subsequent changes to functionality will cause the version of the API to change and it is possible that some versions of the API may become obsolete. The notification of version changes and removal of versions will be the responsibility of JNCC.

# Support

All support questions should be addressed to JNCC. Documentation updates will be released as necessary by JNCC.

# Disclaimer

Use of the API is at the risk of the user. Tron Systems are not be responsible for issues or loss which might arise.

# Live Documentation

The application supports querying of the API using a Swagger interface. Using a browser to navigate to:

http://<app\_host>/assets/swagger/index.html

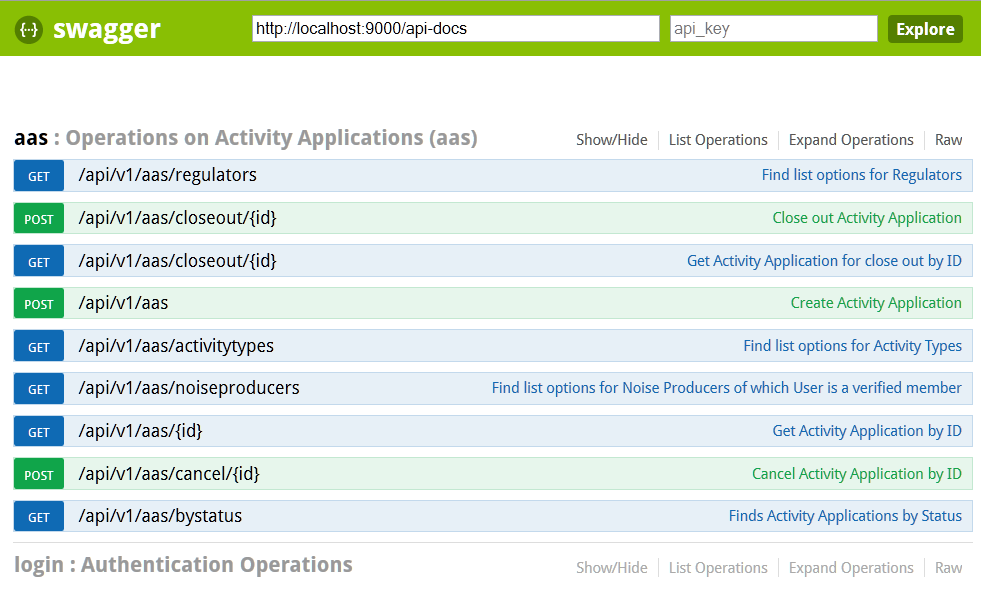
(where app\_host is the application’s host server) will produce an API documentation window.

This is available for the current development at:

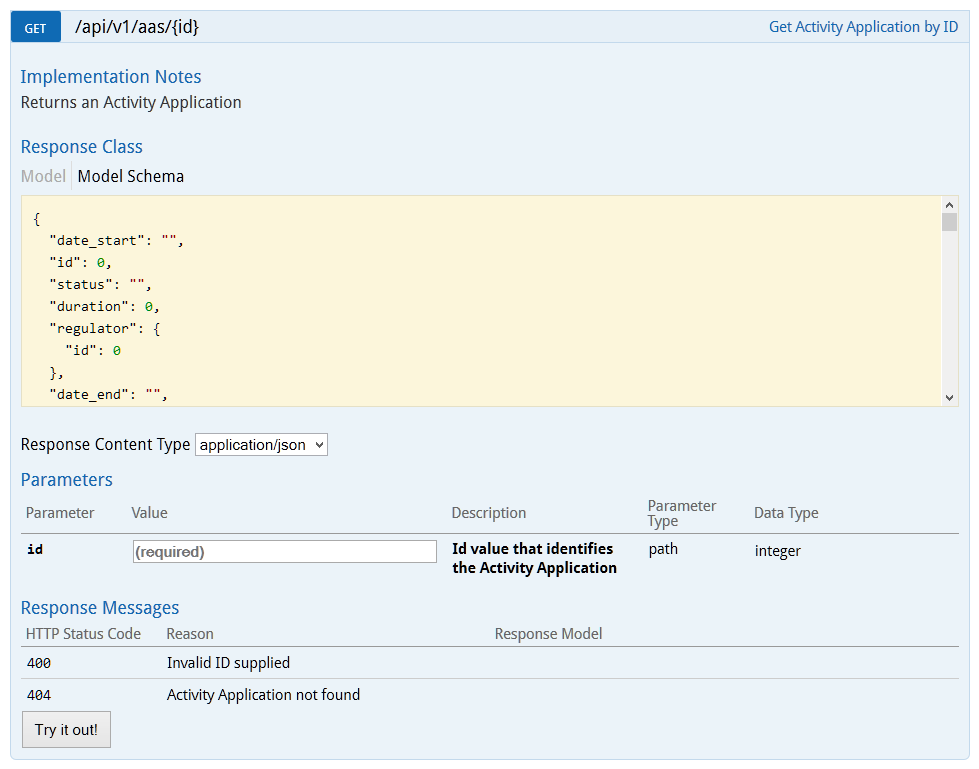
<https://jncc-trondev1.rhcloud.com/assets/swagger/index.html>

Final details of the live location will be provided later.

The Swagger documentation provides information on the model schema but does not provide full API documentation. It can be used to aid understanding but the description in this document gives a fuller understanding.



API initial page



Detail of API request

# API Root

As mentioned previously the API is versioned so all calls to the API are at:

http://<app\_host>/api/v<x>/

where <app\_host> is the application’s host server and <x> is the version number.

This will be referred to below as <apiroot>.

e.g., <https://jncc-trondev1.rhcloud.com/api/v1/aas/23> will be referred to as:

<apiroot>/aas/23.

# Actions Overview

This section provides an overview of the available actions. Details of fields associated with these are listed in the Section 8. An example of each action is shown in Section 9. Further details can be found in the Swagger interface.

Access rights will be validated in each of these processes.

## Login

It is necessary to authenticate prior to any request to the API. Authenticate by issuing a POST request to:

<apiroot>/login

An authentication token will be issued which needs to be used in subsequent calls. The token will be valid for 30 minutes after it is issued.

## List Regulator Options

A list of regulators valid for use in submitted Activity Applications can be retrieved by issuing a GET request to:

<apiroot>/aas/regulators

The data returned is described in Section 8.2 and includes the id and name of each regulator. The id of the regulator is required when creating an Activity Application.

## List Noise Producer Options

A list of noise producers valid for use in submitted Activity Applications can be retrieved by issuing a GET request to:

<apiroot>/aas/noiseproducers

This provides a list of noise producer organisations of which the user is a verified member. Most users will be a member of only one organisation. The data returned is described in Section 8.2 and includes the id and name of each noise producer. The id of the noise producer is required when creating an Activity Application.

## List Activity Type Options

A list of activity types valid for use in submitted Activity Applications can be retrieved by issuing a GET request to:

<apiroot>/aas/activitytypes

The data returned is described in Section 8.2 and includes the id and name of each activity type. The id of the activity type is required when creating an Activity Application and additional data must be submitted which is required for that activity type.

## List Activity Applications

A list of Activity Applications can be retrieved by issuing a GET request to

<apiroot>/aas/bystatus?status=<status>

where <status> is a comma-separated list of statuses. Valid status values are: “Proposed”, “Closed”, “Interim Close-out” and “Cancelled”.

e.g. <apiroot>/aas/bystatus?status=Closed,Cancelled will retrieve all Closed and Cancelled Activity Applications.

## Submit an Activity Application

An Activity Application can be created by POSTing to

<apiroot>/aas

An Activity Application requires a basic set of data for the Activity Application, a specific set of data which depends on the activity type, and a set of proposed activity locations.

The basic data required is (as described in section 8.2):

* regulator\_id (using the id of a regulator returned via the <apiroot>/aas/regulators request)
* noiseproducer\_id (using the id of a noiseproducer returned via the <apiroot>/aas/noiseproducers request)
* non\_licensable (true if the notification is voluntary)
* date\_start
* date\_end
* duration
* activitytype\_id (using the id of an activity type returned via the <apiroot>/aas/activitytypes request)

Depending upon the activity type, additional fields are required as described in the tables in the Section 8.3 below.

An array of Proposed Activity locations, described in Section 8.5, is also required, each location comprising either:

1. An Oil and Gas Block code; or
2. A Latitude/Longitude point; or
3. A set of Latitude/Longitude points making up a Polygon

The returned object, will contain an id value which indicates the number (id) of the newly created Activity Application which may be used in subsequent calls.

Error messages will also be returned.

## Retrieve Activity Application Details

Submitting a GET request to

<apirooot>/aas/{id}

where the id is that returned when creating an Activity Application will return all of the details of the application.

## Cancel an Activity Application

A POST request to

<apiroot>/aas/cancel/{id}

will cancel the Activity Application. The value returned will give the full Activity Application data including the updated status.

## Close Out an Activity Application

A GET request to

<apiroot>/aas/closeout/{id}

will return a structure suitable for closing out an application.

A POST request to

<apiroot>/aas/closeout/{id}

will close-out the Activity Application. Locations, activity dates, and actual values for activity type data will be updated in the process. The value returned will give the full Activity Application data including the updated status.

# Data Fields

Note: All date fields should be formatted YYYY-MM-DD.

## List Options

The following actions provide list options for use in submitting an Activity Application.

### Regulators

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| id | Internal ID of the regulator |  | Read only. Integer |
| organisation\_name | Name of the regulator |  | Read only.  Text <= 50 characters |

### Noise Producers

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| id | Internal ID of the noise producer |  | Read only. Integer. |
| organisation\_name | Name of the noise producer |  | Read only.  Text <= 50 characters |

### Activity Types

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| id | Internal ID of the activity type |  | Read only. Integer. |
| name | Name of the activity type |  | Read only.  Text <= 50 characters |

## Activity Application

When submitting an Activity, one set of activity type data is also required and at least one activity location.

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| noiseproducer(id) | Noise producer id | List provided using <apiroot>/aas/noiseproducers | Mandatory. Integer. |
| regulator(id) | Regulator id | List provided using <apiroot>/aas/regulators | Mandatory. Integer. |
| non\_licensable | True if the submission is a voluntary notification for non-licensable activity |  | Boolean |
| date\_start | Earliest start date | Format  YYYY-MM-DD | Mandatory.  Must be after  2000-01-01 |
| date\_end | Latest end date | Format  YYYY-MM-DD | Mandatory.  Must be after  date\_start |
| duration | Estimated maximum number of days over the whole period that impulsive noise will occur |  | Mandatory. Integer.  Minimum 1.  Not > gap in days between start and end date. |
| activitytype\_id | Activity type | List provided using <apiroot>/aas/activitytypes | Mandatory. Integer. |

Read-only fields

|  |  |  |  |
| --- | --- | --- | --- |
| id | Internal ID |  | Read-only. Integer |
| status | Status | Proposed  Interim Close-out  Closed  Cancelled | Read-only. Text. |
| date\_due | Date close-out report due (depends on regulator, calculated when proposed activity submitted) | Format  YYYY-MM-DD | Read-only. |
| date\_closed | Date closed-out (set when activity is closed-out) | Format  YYYY-MM-DD | Read-only. |

## Proposed Activity - Activity Type Data

Only one activity type can be included per Activity Application and so only one activity type section is expected in the submitted data. For each activity type there are a specific set of fields required as follows.

### Activity Type - Seismic

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| survey\_type | Survey type | OBC/OBN  VSP  Site  Regional  Reservoir  Other | Mandatory. Text. |
| other\_survey\_type | Detail of ‘Other’ survey type. |  | Mandatory if  survey\_type is Other.  Ignored if survey\_type is not ‘Other’  Text <= 50 characters |
| data\_type | Data type | 2D  3D  4D | Mandatory. Text. |
| max\_airgun\_volume | Max airgun volume in cubic inches |  | Optional. Integer.  Minimum 1.  No required upper limit, but expected to be up to 20000. |
| sound\_pressure\_level | Sound pressure level in dB re 1μPa (peak) |  | Optional. Integer.  Minimum 1.  Maximum 500. |
| sound\_exposure\_level | Sound exposure level in dB re 1μPa2.s |  | Optional. Integer.  Minimum 1.  Maximum 500. |

### Activity Type – Sub-Bottom Profilers

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| source | Source | Pinger  Boomer  Spark  Chirp | Mandatory. Text. |
| frequency | Frequency in hertz |  | Optional. Integer.  Minimum 1.  No required upper limit, but expected to be up to 200000. |
| sound\_pressure\_level | Sound pressure level in dB re 1μPa (peak) |  | Optional. Integer.  Minimum 1.  Maximum 500. |
| sound\_exposure\_level | Sound exposure level in dB re 1μPa2.s |  | Optional. Integer.  Minimum 1.  Maximum 500. |

### Activity Type - Piling

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| max\_hammer\_energy | Max hammer energy in kilojoules |  | Optional. Integer.  Minimum 1.  No required upper limit, but expected to be up to 30000. |
| sound\_pressure\_level | Sound pressure level in dB re 1μPa (peak) |  | Optional. Integer.  Minimum 1.  Maximum 500. |
| sound\_exposure\_level | Sound exposure level in dB re 1μPa2.s |  | Optional. Integer.  Minimum 1.  Maximum 500. |

### Activity Type - Explosives

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| tnt\_equivalent | TNT equivalent in kilograms |  | Optional. Double (1 decimal place).  Minimum 1.0  Maximum 500.0. |
| sound\_pressure\_level | Sound pressure level in dB re 1μPa (peak) |  | Optional. Integer.  Minimum 1.  Maximum 500. |
| sound\_exposure\_level | Sound exposure level in dB re 1μPa2.s |  | Optional. Integer.  Minimum 1.  Maximum 500. |

### Activity Type - Acoustic Deterrent Device

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| frequency | Frequency in kilohertz (NOTE: different units from other frequencies) |  | Optional. Integer.  Minimum 1.  No required upper limit, but expected to be up to 200000. |
| sound\_pressure\_level | Sound pressure level in dB re 1μPa (peak) |  | Optional. Integer.  Minimum 1.  Maximum 500. |
| sound\_exposure\_level | Sound exposure level in dB re 1μPa2.s |  | Optional. Integer.  Minimum 1.  Maximum 500. |

### Activity Type - Multibeam Echosounders

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| frequency | Frequency in hertz |  | Optional. Integer.  Minimum 1.  No required upper limit, but expected to be up to 200000. |
| sound\_pressure\_level | Sound pressure level in dB re 1μPa (peak) |  | Optional. Integer.  Minimum 1.  Maximum 500. |
| sound\_exposure\_level | Sound exposure level in dB re 1μPa2.s |  | Optional. Integer.  Minimum 1.  Maximum 500. |

### Activity Type – Ministry of Defence

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| source | Source | ASW Sonar  ASW Sonar (Check)  Explosive | Mandatory. Text. |

## Closing and Activity - Activity Type Data

Actual data on activity types is expected at closeout.

Only one activity type can be included per Activity Application and so only one activity type section is expected in the submitted data. For each activity type there are a specific set of fields required as follows.

### Activity Type - Seismic

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| max\_airgun\_volume\_actual | Max airgun volume in cubic inches |  | Optional. Integer.  Minimum 1.  No required upper limit, but expected to be up to 20000. |
| sound\_pressure\_level\_actual | Sound pressure level in dB re 1μPa (peak) |  | Optional. Integer.  Minimum 1.  Maximum 500. |
| sound\_exposure\_level\_actual | Sound exposure level in dB re 1μPa2.s |  | Optional. Integer.  Minimum 1.  Maximum 500. |

### Activity Type – Sub-Bottom Profilers

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** |  | **Description** | **Values** | **Constraints** |
| frequency\_actual |  | Frequency in hertz |  | Optional. Integer.  Minimum 1.  No required upper limit, but expected to be up to 200000. |
| sound\_pressure\_level\_actual |  | Sound pressure level in dB re 1μPa (peak) |  | Optional. Integer.  Minimum 1.  Maximum 500. |
| sound\_exposure\_level\_actual |  | Sound exposure level in dB re 1μPa2.s |  | Optional. Integer.  Minimum 1.  Maximum 500. |

### Activity Type - Piling

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| max\_hammer\_energy\_actual | Max hammer energy in kilojoules |  | Optional. Integer.  Minimum 1.  No required upper limit, but expected to be up to 30000. |
| sound\_pressure\_level\_actual | Sound pressure level in dB re 1μPa (peak) |  | Optional. Integer.  Minimum 1.  Maximum 500. |
| sound\_exposure\_level\_actual | Sound exposure level in dB re 1μPa2.s |  | Optional. Integer.  Minimum 1.  Maximum 500. |

### Activity Type - Explosives

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| max\_hammer\_energy\_actual | TNT equivalent in kilograms |  | Optional. Double (1 decimal place).  Minimum 1.0  Maximum 500.0. |
| sound\_pressure\_level\_actual | Sound pressure level in dB re 1μPa (peak) |  | Optional. Integer.  Minimum 1.  Maximum 500. |
| sound\_exposure\_level\_actual | Sound exposure level in dB re 1μPa2.s |  | Optional. Integer.  Minimum 1.  Maximum 500. |

### Activity Type - Acoustic Deterrent Device

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| frequency\_actual | Frequency in kilohertz (NOTE: different units from other frequencies) |  | Optional. Integer.  Minimum 1.  No required upper limit, but expected to be up to 200000. |
| sound\_pressure\_level\_actual | Sound pressure level in dB re 1μPa (peak) |  | Optional. Integer.  Minimum 1.  Maximum 500. |
| sound\_exposure\_level\_actual | Sound exposure level in dB re 1μPa2.s |  | Optional. Integer.  Minimum 1.  Maximum 500. |

### Activity Type - Multibeam Echosounders

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| frequency\_actual | Frequency in hertz |  | Optional. Integer.  Minimum 1.  No required upper limit, but expected to be up to 200000. |
| sound\_pressure\_level\_actual | Sound pressure level in dB re 1μPa (peak) |  | Optional. Integer.  Minimum 1.  Maximum 500. |
| sound\_exposure\_level\_actual | Sound exposure level in dB re 1μPa2.s |  | Optional. Integer.  Minimum 1.  Maximum 500. |

### Activity Type – Ministry of Defence

No actual data required at close out.

## Activity Locations

### Proposed Locations

Proposed Activity locations are either an Oil and Gas Bock Code, a point entered as latitude and longitude values, or a polygon represented as a series of points.

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| entered\_ogb\_code | An oil and gas block code |  | Mandatory if lat or lng is blank and polygon\_latlngs is blank.  Format nnn/nn where n is an integer digit.  Must be a valid Oil and Gas Block code. |
| lat | Latitude of a point (degrees) |  | Mandatory if entered\_ogb\_code is blank and polygon\_latlngs is blank.  Ignored if entered\_ogb\_code is not blank.  Double with between 2 and 7 decimal places.  Minimum 48.00  Maximum 64.00 |
| lng | Longitude of a point (degrees) |  | Mandatory if enteredBlockCode is blank and polygon\_latlngs is blank.  Ignored if enteredBlockCode is not blank.  Double with between 2 and 7 decimal places.  Minimum -24.00  Maximum 4.00 |
| polygon\_latlngs | String containing multiple lat/lng values representing points of a polygon |  | String containing comma-spearated lat/lng values (same format as point lat/lngs)  e.g.  “50.67/-4.23,52.55/-15.23” |

All other fields should be ignored in submitting a proposed Activity.

### Actual Locations and Dates

Interim close-out data can be added before an Activity Application is closed out and the status updated to “Interim Close-out”, or the data can be added and the Activity Application submitted with a status of “Closed”. Once “Closed”, no further editing is possible.

Additional locations of type Oil and Gas Block or Point can be added at Close Out. Polygon locations can only be added before the form is submitted as “Proposed”.

Dates can be added at Close Out to activity locations which are Oil and Gas Block Codes or Latitude/Longitude points.

Proposed Oil and Gas Block or Point locations where no activity occurred can be marked as having no activity (no\_activity flag).

No dates or no\_activity flag can be submitted against proposed Polygon locations. Instead, Oil and Gas Block Code or Point locations must be added to pinpoint the exact location of the actual activity within a Polygon.

In addition to the fields for a proposed location, the following fields apply.

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Description** | **Values** | **Constraints** |
| id | Internal ID |  | Read-only. Integer |
| no\_activity | Allows locations to be marked with no activity during close-out. |  | Read-only except at close-out. Boolean.  Invalid for proposed activity locations and all Polygon locations. |
| creation\_type | When the location was created. | Proposed  Additional | Read-only. Text. |
| activitydates | Dates of actual activity. |  | Read-only except at close-out.  String containing comma-separated list of activity\_date values in YYYY-MM-DD format  Invalid for proposed activity locations and all Polygon locations. |

Example Calls in Data Flow

## Headers

For all calls, headers must include:

Content-Type: application/json

Accept: application/json

For all but the login call, they must also include:

X-AUTH-TOKEN: <token returned at login>

## Login

URL: http://<host>/api/v1/login

Method: POST

Body:

{

"password": "your\_password",

"email": "your.email@your\_company.co.uk"

}

Return:

Authorisation token, e.g.

{"authToken":"6313d312e0888af0d2d69a8cac2cea91"}

This authToken must be used in subsequent calls.

## Get Regulators

URL: http://<host>/api/v1/aas/regulators

Method: GET

Body: none

Return:

Array of ID and Regulator name, ordered by Regulator name, e.g.

{"1":"Department of Energy and Climate Change (DECC)","4":"Department of Environment, Northern Ireland","5":"Marine Management Organisation","3":"Marine Scotland","6":"Ministry of Defence","2":"Natural Resources Wales"}

## Get Noise Producers

URL: http://<host>/api/v1/aas/noiseproducers

Method: GET

Body: none

Return:

Array of ID and Organisation name for all organisations the user is a member of, e.g.

{"15":"Your Organisation Name"}

## Get Activity Types

URL: http://<host>/api/v1/aas/activitytypes

Method: GET

Body: none

Return:

Array of ID and Activity Type, e.g.

{"1":"Seismic Survey","2":"Sub-Bottom Profilers","3":"Piling","4":"Explosives","5":"Acoustic Deterrent Device","6":"Multibeam Echosounders","7":"Ministry of Defence Activity"}

## Create Activity Application

URL: http://<host>/api/v1/aas

Method: POST

Body:

{

"noiseproducer": {

"id": 15

},

"regulator": {

"id": 3

},

"non\_licensable": false,

"date\_start": "2015-04-05",

"date\_end": "2015-06-05",

"duration": 40,

"activitytype\_id": 3,

"activityPiling": {

"max\_hammer\_energy": 45

},

"activitylocations": [

{

"lat": 52.47,

"lng": -6.93

},

{

"entered\_ogb\_code": "111/11"

},

{

"polygon\_latlngs": "48.12 / -12.34, 55.12 / 1.23, 55.12 / -18.45, 48.12 / -12.34"

}

]

}

Return:

Detail of Activity Application submitted with id to identify it, e.g.

{"id":319,"status":"Proposed","noiseproducer":{"id":15},"regulator":{"id":3},"non\_licensable":false,"date\_start":"2015-04-05","date\_end":"2015-06-05","date\_due":"2015-08-28","duration":40,"activitytype\_id":3,"activityPiling":{"id":163,"max\_hammer\_energy":45,"sound\_pressure\_level":null,"sound\_exposure\_level":null,"max\_hammer\_energy\_actual":null,"sound\_pressure\_level\_actual":null,"sound\_exposure\_level\_actual":null},"activitylocations":[{"id":245,"lat":52.47,"lng":-6.93,"polygon\_latlngs":"","activitydates":[]},{"id":246,"entered\_ogb\_code":"111/11","polygon\_latlngs":"","activitydates":[]},{"id":247,"no\_activity":true,"polygon\_latlngs":"48.12 / -12.34, 55.12 / 1.23, 55.12 / -18.45, 48.12 / -12.34","activitydates":[]}]}

## Get Activity Application

URL: http://<host>/api/v1/aas/{id}

Method: GET

Body: none

Return:

Application details, e.g.

{"id":319,"status":"Proposed","noiseproducer":{"id":15},"regulator":{"id":3},"non\_licensable":false,"date\_start":"2015-04-05","date\_end":"2015-06-05","date\_due":"2015-08-28","duration":40,"activitytype\_id":3,"activityPiling":{"id":163,"max\_hammer\_energy":45,"sound\_pressure\_level":null,"sound\_exposure\_level":null,"max\_hammer\_energy\_actual":null,"sound\_pressure\_level\_actual":null,"sound\_exposure\_level\_actual":null},"activitylocations":[{"id":245,"lat":52.47,"lng":-6.93,"polygon\_latlngs":"","activitydates":[]},{"id":246,"entered\_ogb\_code":"111/11","polygon\_latlngs":"","activitydates":[]},{"id":247,"no\_activity":true,"polygon\_latlngs":"48.12 / -12.34, 55.12 / 1.23, 55.12 / -18.45, 48.12 / -12.34","activitydates":[]}]}

## Create Linked Activity Application

Specify parent.id of the first Activity Application

URL: http://<host>/api/v1/aas

Method: POST

{

"noiseproducer": {

"id": 15

},

"regulator": {

"id": 3

},

"non\_licensable": false,

"date\_start": "2015-04-05",

"date\_end": "2015-06-05",

"duration": 40,

"activitytype\_id": 4,

"activityExplosives": {

"tnt\_equivalent": 77

},

"activitylocations": [

{

"lat": 52.47,

"lng": -6.93

},

{

"entered\_ogb\_code": "111/11"

}

],

"parent.id":319

}

Return:

The activity, including its parent, e.g.

{"id":321,"status":"Proposed","noiseproducer":{"id":15},"regulator":{"id":3},"non\_licensable":false,"date\_start":"2015-04-05","date\_end":"2015-06-05","date\_due":"2015-08-28","duration":40,"activitytype\_id":4,"activityExplosives":{"id":77,"tnt\_equivalent":77.0,"sound\_pressure\_level":null,"sound\_exposure\_level":null,"tnt\_equivalent\_actual":null,"sound\_pressure\_level\_actual":null,"sound\_exposure\_level\_actual":null},"activitylocations":[{"id":250,"lat":52.47,"lng":-6.93,"polygon\_latlngs":"","activitydates":[]},{"id":251,"entered\_ogb\_code":"111/11","polygon\_latlngs":"","activitydates":[]}],"parent":{"id":319,"status":"Proposed","noiseproducer":{"id":15},"regulator":{"id":3},"non\_licensable":false,"date\_start":"2015-04-05","date\_end":"2015-06-05","date\_due":"2015-08-28","duration":40,"activitytype\_id":3,"activityPiling":{"id":163,"max\_hammer\_energy":45,"sound\_pressure\_level":null,"sound\_exposure\_level":null,"max\_hammer\_energy\_actual":null,"sound\_pressure\_level\_actual":null,"sound\_exposure\_level\_actual":null},"activitylocations":[{"id":245,"lat":52.47,"lng":-6.93,"polygon\_latlngs":"","activitydates":[]},{"id":246,"entered\_ogb\_code":"111/11","polygon\_latlngs":"","activitydates":[]},{"id":247,"no\_activity":true,"polygon\_latlngs":"48.12 / -12.34, 55.12 / 1.23, 55.12 / -18.45, 48.12 / -12.34","activitydates":[]}]}}

## Cancel Activity Application

URL: http://<host>/api/v1/aas/cancell/{id}

Method: POST

Body:

{}

Return:

Detail of cancelled Activity Application with a status of “Cancelled”, e.g.

{"id":321,"status":"Cancelled","noiseproducer":{"id":15},"regulator":{"id":3},"non\_licensable":false,"date\_start":"2015-04-05","date\_end":"2015-06-05","date\_due":"2015-08-28","duration":40,"activitytype\_id":4,"activityExplosives":{"id":77,"tnt\_equivalent":77.0,"sound\_pressure\_level":null,"sound\_exposure\_level":null,"tnt\_equivalent\_actual":null,"sound\_pressure\_level\_actual":null,"sound\_exposure\_level\_actual":null},"activitylocations":[{"id":250,"lat":52.47,"lng":-6.93,"polygon\_latlngs":"","activitydates":[]},{"id":251,"entered\_ogb\_code":"111/11","polygon\_latlngs":"","activitydates":[]}],"parent":{"id":319,"status":"Proposed","noiseproducer":{"id":15},"regulator":{"id":3},"non\_licensable":false,"date\_start":"2015-04-05","date\_end":"2015-06-05","date\_due":"2015-08-28","duration":40,"activitytype\_id":3,"activityPiling":{"id":163,"max\_hammer\_energy":45,"sound\_pressure\_level":null,"sound\_exposure\_level":null,"max\_hammer\_energy\_actual":null,"sound\_pressure\_level\_actual":null,"sound\_exposure\_level\_actual":null},"activitylocations":[{"id":245,"lat":52.47,"lng":-6.93,"polygon\_latlngs":"","activitydates":[]},{"id":246,"entered\_ogb\_code":"111/11","polygon\_latlngs":"","activitydates":[]},{"id":247,"no\_activity":true,"polygon\_latlngs":"48.12 / -12.34, 55.12 / 1.23, 55.12 / -18.45, 48.12 / -12.34","activitydates":[]}]}}

## Get Activity Application for Close-out

Gets structure suitable for close-out

URL: http://<host>/api/v1/aas/closeout/{id}

Method: GET

Body: none

Return:

{"id":319,"interimcloseout":null,"activitylocations":[{"id":245,"lat":52.47,"lng":-6.93,"no\_activity":false,"polygon\_latlngs":"","activitydates":[{"id":722,"activity\_date":"2015-05-07"},{"id":723,"activity\_date":"2015-05-09"}]},{"id":246,"entered\_ogb\_code":"111/11","no\_activity":true,"polygon\_latlngs":"","activitydates":[]},{"id":247,"no\_activity":true,"polygon\_latlngs":"48.12 / -12.34, 55.12 / 1.23, 55.12 / -18.45, 48.12 / -12.34","activitydates":[{"id":724,"activity\_date":"2015-05-07"},{"id":725,"activity\_date":"2015-05-08"}]}],"activityAcousticDD":null,"activityExplosives":null,"activityMoD":null,"activityMultibeamES":null,"activityPiling":{"id":163,"max\_hammer\_energy\_actual":45,"sound\_pressure\_level\_actual":56,"sound\_exposure\_level\_actual":67},"activitySeismic":null,"activitySubBottomProfilers":null}

## Add Interim Close-out Data

Use interimcloseout=true to submit data without closing out the form.

Dates should not be set against polygon location types. Submission of new more specific point or Oil and gas block locations is acceptable.

Dates set in activitydate will overwrite any existing dates. Multiple dates are expected in comma-separated format. “activitydates” is not used for POSTing dates at close out – only for getting dates.

URL: http://<host>/api/v1/aas/closeout/{id}

Method: POST

Body:

{

"id":319,

"interimcloseout":true,

"activitylocations":[

{

"id":245,

"activitydate": "2015-05-07,2015-05-09",

"no\_activity": false

},

{

"id":246,

"no\_activity": true

},

{

"id":247,

"activitydate":"2015-05-07,2015-05-08",

"no\_activity":false

}],

"activityPiling":

{

"id":163,

"max\_hammer\_energy\_actual":45,

"sound\_pressure\_level\_actual":56,

"sound\_exposure\_level\_actual":67

}

}

Return:

Detail of Activity Application, e.g.

{"id":319,"status":"Interim Close-out","noiseproducer":{"id":15},"regulator":{"id":3},"non\_licensable":false,"date\_start":"2015-04-05","date\_end":"2015-06-05","date\_due":"2015-08-28","date\_closed":"2015-02-26","duration":40,"activitytype\_id":3,"activityPiling":{"id":163,"max\_hammer\_energy":45,"sound\_pressure\_level":null,"sound\_exposure\_level":null,"max\_hammer\_energy\_actual":45,"sound\_pressure\_level\_actual":56,"sound\_exposure\_level\_actual":67},"activitylocations":[{"id":245,"lat":52.47,"lng":-6.93,"no\_activity":false,"polygon\_latlngs":"","activitydates":[{"id":728,"activity\_date":"2015-05-07"},{"id":729,"activity\_date":"2015-05-09"}]},{"id":246,"entered\_ogb\_code":"111/11","no\_activity":true,"polygon\_latlngs":"","activitydates":[]},{"id":247,"no\_activity":true,"polygon\_latlngs":"48.12 / -12.34, 55.12 / 1.23, 55.12 / -18.45, 48.12 / -12.34","activitydates":[{"id":730,"activity\_date":"2015-05-07"},{"id":731,"activity\_date":"2015-05-08"}]}]}

## Close Out Activity Application

Do not use interimcloseout to submit data and close out the form.

Dates should not be set against polygon location types. Submission of new more specific point or Oil and gas block locations is acceptable.

Dates set in “activitydate” will overwrite any existing dates. Multiple dates are expected in comma-separated format. “activitydates” is not used for POSTing dates at close out – only for getting dates.

URL: http://<host>/api/v1/aas/closeout/{id}

Method: POST

Body:

{

"id":319,

"activitylocations":[

{

"id":245,

"activitydate": "2015-05-07,2015-05-09",

"no\_activity": false

},

{

"id":246,

"no\_activity": true

},

{

"id":247,

"activitydate":"2015-05-07,2015-05-08",

"no\_activity":false

}],

"activityPiling":

{

"id":163,

"max\_hammer\_energy\_actual":45,

"sound\_pressure\_level\_actual":56,

"sound\_exposure\_level\_actual":67

}

}

Return:

Detail of Activity Application, e.g.

{"id":319,"status":"Closed","noiseproducer":{"id":15},"regulator":{"id":3},"non\_licensable":false,"date\_start":"2015-04-05","date\_end":"2015-06-05","date\_due":"2015-08-28","date\_closed":"2015-02-26","duration":40,"activitytype\_id":3,"activityPiling":{"id":163,"max\_hammer\_energy":45,"sound\_pressure\_level":null,"sound\_exposure\_level":null,"max\_hammer\_energy\_actual":45,"sound\_pressure\_level\_actual":56,"sound\_exposure\_level\_actual":67},"activitylocations":[{"id":245,"lat":52.47,"lng":-6.93,"no\_activity":false,"polygon\_latlngs":"","activitydates":[{"id":728,"activity\_date":"2015-05-07"},{"id":729,"activity\_date":"2015-05-09"}]},{"id":246,"entered\_ogb\_code":"111/11","no\_activity":true,"polygon\_latlngs":"","activitydates":[]},{"id":247,"no\_activity":true,"polygon\_latlngs":"48.12 / -12.34, 55.12 / 1.23, 55.12 / -18.45, 48.12 / -12.34","activitydates":[{"id":730,"activity\_date":"2015-05-07"},{"id":731,"activity\_date":"2015-05-08"}]}]}

## List Activity Applications

Statuses can be “Proposed”, “Cancelled”, “Interim Close-out”, and “Closed”.

URL: http://<host>/api/v1/aas/bystatus?status=<status1>,<status2>

Method: GET

Body: none

Return:

List of Activity Applications, e.g.

[{"id":161,"status":"Proposed","noiseproducer":{"id":15},"regulator":{"id":1},"non\_licensable":false,"date\_start":"2014-06-01","date\_end":"2015-04-08","date\_due":"2015-07-01","duration":6,"activitytype\_id":5,"activityAcousticDD":{"id":12,"frequency":null,"sound\_pressure\_level":null,"sound\_exposure\_level":null,"frequency\_actual":null,"sound\_pressure\_level\_actual":null,"sound\_exposure\_level\_actual":null},"activitylocations":[]},{"id":159,"status":"Proposed","noiseproducer":{"id":15},"regulator":{"id":1},"non\_licensable":false,"date\_start":"2014-06-01","date\_end":"2015-04-08","date\_due":"2015-07-01","duration":6,"activitytype\_id":5,"activityAcousticDD":{"id":11,"frequency":null,"sound\_pressure\_level":null,"sound\_exposure\_level":null,"frequency\_actual":null,"sound\_pressure\_level\_actual":null,"sound\_exposure\_level\_actual":null},"activitylocations":[]}]