



**INTERNATIONAL BEACON
REGISTRATION (IBRD)
USER GUIDE**

Version 2.1

September 2015

International 406 MHz Beacon Registration Database (IBRD)
www.406registration.com

1. INTRODUCTION

The International 406 MHz Beacon Registration Database (IBRD) is designed to be freely available to users with no access to national registration facilities and to Administrations who wish to avail themselves of the facility to make their national beacon registration data more available to SAR services. However, direct registration of 406 MHz beacons in the IBRD is not allowed for the country codes of Administrations that have informed Cospas-Sarsat of their decision to control the registration of beacons under their jurisdiction, whether in the IBRD or in their own national registration databases.

The IBRD provides various levels of access to:

- a) beacon owners who wish to register their beacons when no registration facility exists in their country and the responsible Administration has agreed to allow direct registration in the IBRD;
- b) Administrations who control the registration of beacons identified with their country code, but wish to make registration data available to international SAR services via the IBRD;
- c) SAR services that need to access beacon registration data to efficiently process distress alerts; and
- d) other authorised government entities or agencies for the purpose of controlling the proper coding or registration of 406 MHz beacons.

Cospas-Sarsat provides the IBRD solely for the purpose of assisting SAR Services and this does not cancel the obligation of Administrations to provide a beacon registration facility per ICAO and IMO requirements.

The functional requirements for the IBRD are provided in document C/S D.001 "Functional Requirements for the Cospas-Sarsat International 406 MHz Beacon Registration Database" and the IBRD operations policy is defined in document C/S D.004 "Operations Plan for the Cospas-Sarsat International 406 MHz Beacon Registration Database".

Access to the IBRD is controlled by user codes assigned by the Cospas-Sarsat Secretariat in accordance with Council guidelines. Administrations wishing to use the IBRD should designate a National IBRD Point of Contact. Cospas-Sarsat will accept designations from the Cospas-Sarsat Representative of the participating country or, for non-participating countries, the IMO or the ICAO Representative for that country.

1.1. User Accounts

1.1.1. Beacon owners/operators

Beacon owners/operators have access only to their own password-protected registration form. They can only update records to which they have beacon ID and password.

1.1.2. National Data Providers

This account is used to register beacons held in a national registry in the IBRD if the State wishes to make the data more readily available to the SAR community.

1.1.3. National SAR services

This account is used to register beacons held in a national registry in the IBRD if the State wishes to make the data more readily available to the SAR community.

1.1.4. Authorized ship and aircraft inspectors and maintenance facilities

This account is for the inspectors and maintenance personnel who wish to confirm that a beacon has been registered. This access does not allow visibility into owner/operator information and is used only to confirm that a beacon is properly registered.

1.2. How to obtain a user account

In order to acquire appropriate passwords to access the IBRD, National Administrations should:

- designate a National IBRD Point of Contact, and
- request that the Cospas-Sarsat Secretariat allocate user identifications and passwords to their National IBRD Point of Contact.

The National IBRD Point of Contact is the person the Cospas-Sarsat database administrator will contact in case of issues with the IBRD or questions regarding the Administration's beacons in the IBRD.

The user account request must be provided in writing to the Database Administrator (i.e. the Cospas-Sarsat Secretariat) and must carry the signature of the Cospas-Sarsat, IMO or ICAO Representative of the Administration.

For a form letter template, please visit <http://www.cospas-sarsat.int/en/documents-pro/document-templates> under IBRD 'User Account Request Form'. The form letter template is also available in sections 3.3 and 4.4 of this guide.

1.3. Useful Information

1.3.1. Links to IBRD FAQ (Answers to Frequently Asked Questions)

<https://www.cospas-sarsat.int/en/beacon-ownership/beacon-registration-faq>

<http://www.406registration.com/en-US/help-and-faq-2.aspx>

1.3.2. Relevant Documents

International 406 MHz Beacon Registration Database Documents (IBRD)
(D.xxx Series) (<https://www.cospas-sarsat.int/en/documents-pro/system-documents>)

- D.001 - Functional Requirements for the Cospas-Sarsat International 406 MHz Beacon Registration Database
- D.002 - Cospas-Sarsat International 406 MHz Beacon Registration Database (IBRD) Software Maintenance Manual
- D.003 - Cospas-Sarsat International 406 MHz Beacon Registration Database (IBRD) System Maintenance Manual
- D.004 - Operations Plan for the Cospas-Sarsat International 406 MHz Beacon Registration Database

1.4. Questions or Comments

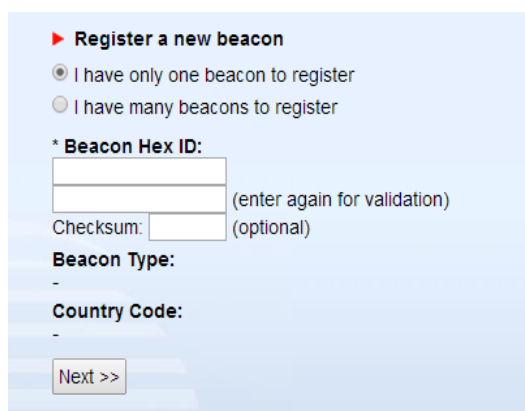
If you have any questions or need extra support for the use of the IBRD, please contact the Database Manager via email at dbadmin@406registration.com

2. User Account Passwords

2.1. User Account for Single Beacon

The beacon's unique identification number is the registered the user name for individuals registering a single beacon. A password is set at the time of initial registration by the person registering the beacon.

From 406registration.com under
'Register a new beacon' select 'I
have only one beacon to register'



Enter the 15 digit hexadecimal ID number indicated on the beacon label or documentation provided by the manufacturer. For validation purposes, you must enter the same beacon ID again in the box below.

Some beacon manufacturers utilize a 5 digit checksum code. If a checksum code is provided, then this code should be entered to provide an additional validation of the Beacon ID.

The country code associated with the beacon will appear. If your beacon is not permitted in the IBRD, you will be prompted where to go to register your beacon.

Click **'Next'** to continue and read and accept the Notice on the next page.

Beacon registration is a five step process. The items marked with an asterisk (*) on each of input pages in are required fields which must be completed.

The following fields are required fields which must be populated:

- Beacon ID Password Owner Name
- Owner phone number
- Owner phone number type (for example: home, cell, work, fax, other) Emergency contact Name
- Emergency contact phone number
- Emergency contact phone number type (for example: home, cell, work, fax, other) Vehicle Type
- Vehicle Name (not required for PLB) MMSI or Call Sign (for EPIRB only)
- Vehicle Registration Number (not required for PLB)

Filling in the other fields is not required. However, the more information you provide, the better SAR services can assist you in the event of a distress. For example, the *Additional Data* field can be used to provide information on specific voyage plans and can be regularly updated.

Step 1 of 5

- Choose a password containing at least 8 alphanumeric characters
- Select a security question and type in its answer.
- Select NEXT to view the next page and enter more details.

Step 1 of 5

* Indicates a required field

Send to: Text file [go](#)

Account Information

* Beacon Hex ID: (enter again for validation) ?
Checksum: (optional)

Beacon Type: PLB

Country Code: OMAN (461)

* Password: (enter again for validation) ?
Password must contain at both alphabetic and numeric characters and be at least 8 characters in length.

* Security question: ?

* Security answer: ?

Step 2 of 5

Owner/Operator information		
* Name:		?
Address:		?
City:		?
State/Province:		?
Country:		?
Postal Code:		?
E-mail:		?
* Telephone:		?
Phone Number 2:		
Phone Number 3:		
Phone Number 4:		
Cell phone provider:		

Step 3 of 5

Vessel information

* Vehicle Type:

* Vessel Name: ?

Vessel color:

Number of life boats:

Number of life rafts:

Radio Equipment: ☐ HF ☐ MF ☐ SSB ☐ VHF ☐ Other ?

Radio Call Sign: ?

INMARSAT: ?

Vessel cellular: ?

MMSI number: ?

MMSI (Decoded):

Length overall: ?

Capacity (crew and passengers):

* Vehicle Registration Number:

Vehicle Nationality: ?

Equipped with Simplified Voyage Data Recorder:

Additional Vehicle/Usage Information: ?

At least one of four

Note: MMSI Number must correspond to the Decoded MMSI in the beacon ID.

Step 4 of 5

EPIRB Information		
Manufacturer:		?
Model No.:		?
C-S Type Approval Number:		?
Activation Method:		?
Beacon Homing Device:		?
Additional Beacon Information:		?

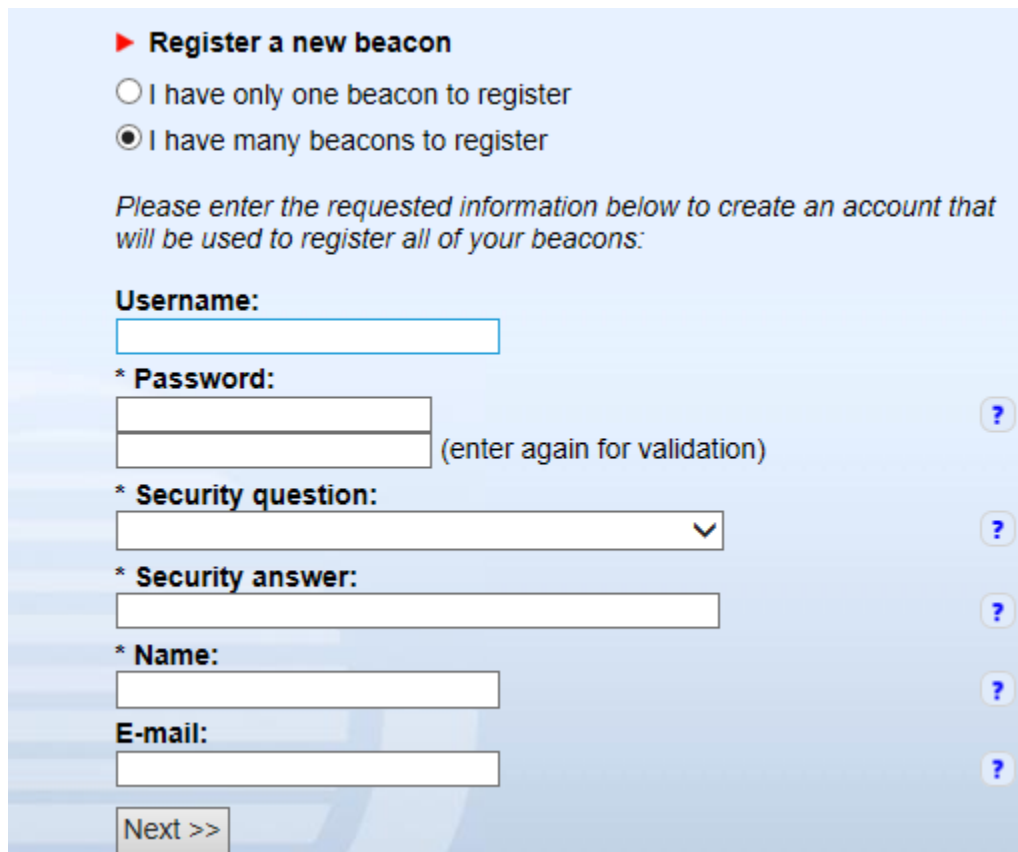
Step 5 of 5

24 hour emergency contact information		
* Name of Primary 24-Hour Emergency Contact:		?
Primary Contact Address Line 1:		
Primary Contact Address Line 2:		
* Telephone:		?
Primary Phone Number 2:		
Primary Phone Number 3:		
Primary Phone Number 4:		
Name of Alternate 24-Hour Emergency Contact:		?
Alternate Contact Address Line 1:		
Alternate Contact Address Line 2:		
Alternate Phone Number 1:		
Alternate Phone Number 2:		
Alternate Phone Number 3:		
Alternate Phone Number 4:		

On completion of all 5 pages, click **SAVE**, a window will pop-up confirming successful registration. If you have entered a valid email address, you will also receive a confirmation email.

2.2. User Account for Multiple Beacons (Block Account)

There is the option to create an account in order to register more than one beacon. Beacon owners with multiple beacons (e.g.: fleet operators) may associate all their beacons with a user name and password. This is useful because otherwise the user would need to login under separate hex ids each time. The user name and password must be chosen when registering the first beacon. **At least one beacon must be registered at the time of block account creation.**



► **Register a new beacon**

☐ I have only one beacon to register

☒ I have many beacons to register

Please enter the requested information below to create an account that will be used to register all of your beacons:

Username:

*** Password:**

 (enter again for validation) [?](#)

*** Security question:**
 [?](#)

*** Security answer:**
 [?](#)

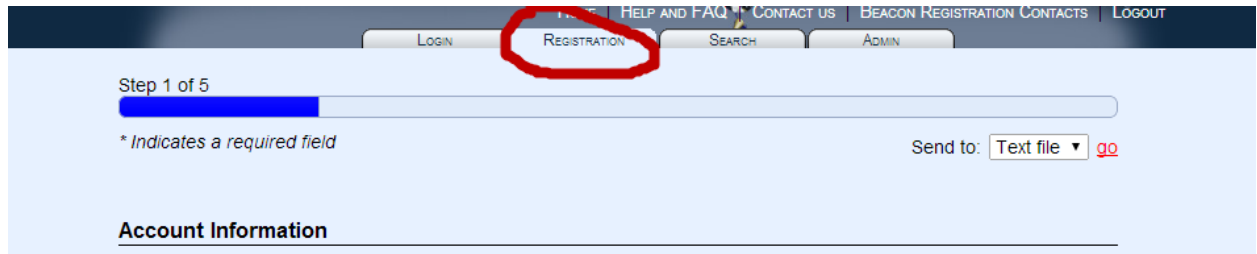
*** Name:**
 [?](#)

E-mail:
 [?](#)

Choose a user name that will be easy for you to remember and select a password containing at least 8 alphanumeric characters. Select a security question and enter your email address.

The 5 input steps are the same as described above in section 2.1 for each beacon registered.

To input new beacons, click the '**Registration**' tab as shown in the image below.

A screenshot of a web application interface. At the top, there is a dark blue navigation bar with several links: 'HOME', 'HELP AND FAQ', 'CONTACT US', 'BEACON REGISTRATION', 'CONTACTS', and 'LOGOUT'. Below this bar is a lighter blue section containing four tabs: 'LOGIN', 'REGISTRATION', 'SEARCH', and 'ADMIN'. The 'REGISTRATION' tab is highlighted with a red circle. Below the tabs, there is a progress indicator showing 'Step 1 of 5' with a blue bar. A note below the progress bar states '* Indicates a required field'. To the right, there is a 'Send to:' dropdown menu set to 'Text file' and a red 'go' button. At the bottom, there is a section titled 'Account Information' with a horizontal line underneath.

2.2.1 Assign an already registered beacon to Block account

If you previously registered a beacon using a hex id as the user name, then you need to access the individual beacon registration with the beacons's hex ID as the user name. Later, you acquire more beacons and decide to create a block account to manage the registrations. Wouldn't it be nice to assign a previously registered beacon to your block account without registering again? Therefore there is a feature to reclaim a previously registered beacon.

Firstly, there needs to be a previously created block ID account. Secondly, you need to log in as a block user and click the Admin tab. Finally, enter the beacon ID and password of the beacon to reclaim and click the 'Reclaim beacon'.

Once done you will have access to the beacon from within your block account.

International Beacon Registration Database (IBRD)

HOME | HELP AND FAQ | CONTACT | BEACON REGISTRATION CONTACTS | LOGOUT

LOGIN | REGISTRATION | SEARCH | **ADMIN**

Use this form to extend changes to owner/operator information across all your records in a single operation.

* Name:

Address:

City:

State/Province:

Country:

Postal Code:

E-mail:

* Telephone:

Phone Number 2:

Phone Number 3:

Phone Number 4:

Cell phone provider:

* Password:

(enter again for validation)

* Security question:

* Security answer:

Save default | Update all records

You can reclaim a beacon previously registered and associate it to the block user account. ed in.

* Username:

* Password:

(enter again)

Reclaim beacon

Your Block Account Information

If you know hex id and password of an beacon registered as individual, you may assign it to the block account.

2.3. National User Account (National Data Provider)

National user accounts are assigned by the Cospas-Secretariat to permit countries to manage beacon registration in the IBRD on behalf of beacon owners. A letter using a format similar to the template found at <http://www.cospas-sarsat.int/en/documents-pro/document-templates> must be sent by mail or fax to the Cospas-Sarsat Secretariat. The letter must be signed by the Administration's ICAO, IMO or Cospas-Sarsat representative. Cospas-Sarsat will then reply, by letter, with the user accounts and passwords for further distribution within the Administration by the appointed National IBRD Point of Contact.

For more information about National User Accounts, please consult section 3 of this document.

2.4. View or Update Existing Beacon Registration

If you need to view or amend the registration information associated with a beacon, please complete the following steps.

Go to: <http://www.406registration.com>

The screenshot shows the login and registration interface of the 406registration.com website. On the left, there are two main sections: 'Login to an existing account' and 'Register a new beacon'. The login section includes fields for 'Username or beacon ID' and 'Password', a 'Forgot password?' link, and a 'Login' button. The registration section has two radio buttons: 'I have only one beacon to register' and 'I have many beacons to register'. On the right, there is a 'Beacon Owners:' section with instructions for entering beacon ID and password, and a 'National Data Providers, Search and Rescue (SAR) authorities, or Authorized ship and aircraft inspectors and maintenance facilities:' section with instructions for entering username and password. Below these, there is a 'For support use the contact us form.' link and a 'Note' about national authorities. At the bottom right, there is a 'Click here to learn more.' link.

Single beacon owners: Enter the beacon ID and password .

Block owners: enter the username you initially registered with.

For block accounts with many beacons, the 'Search Tab', will list all beacons assigned to your block account.

For Block Owners, look under the Search tab, you will see all related beacons. Select one beacon record by clicking on it.

The screenshot shows the search results page of the 406registration.com website. At the top, there is a navigation bar with links: HOME, HELP AND FAQ, CONTACT US, BEACON REGISTRATION CONTACTS, and LOGOUT. Below the navigation bar, there are tabs: LOGIN, REGISTRATION, SEARCH, and ADMIN. The search results section includes a table with columns: Beacon Hex ID, MMSI number, Vessel Name, and Radio Call Sign. There are search criteria fields and a 'Search' button. Below the search results, there is a 'Page: 1 of 0' and 'Records per page: 25' dropdown. At the bottom right, there are 'Import' and 'Export' links. The page shows 'No matches'.

You will see the entire beacon information in one single page. To edit your information, click on **“EDIT”** at the top of the page.

A rectangular button with a light blue background and a thin grey border. It contains a small red square icon with a white 'E' inside, followed by the word 'Edit' in a dark grey sans-serif font.

Change Beacon Status

If your beacon has been lost, stolen, sold, replaced, destroyed or out of service, you can change its status by clicking **EDIT** on the beacon record. The “Special Status” box is in **Step 1**.

You can also enter comments or information for that beacon then click **SAVE** when done to retain changes made.

A screenshot of a web form. On the left, there are two labels: 'Special Status:' and 'Reason or Comments:'. To the right of 'Special Status:' is a dropdown menu. The dropdown is open, showing a list of status options: 'Destroyed', 'Lost', 'Out of Service', 'Replaced', 'Sold', and 'Stolen'. The 'Special Status:' label is in a light blue box, and the 'Reason or Comments:' label is in a light blue box below it.

Change Beacon Password

At any time, you can change the beacon's password. To do so, click on EDIT. The password field is in Step 1

A text input field with a light blue background and a thin grey border. It contains a series of asterisks (password mask). To the left of the field is the label '* Password:'. To the right of the field is a small blue question mark icon.

(enter again for validation)

3. National Data Provider Account

A National IBRD Point of Contact is designated by each Administration. This person is in charge of distributing the user accounts throughout the Administration. This account is used to register beacons on behalf of beacon owners at a national level.

A National Data Provider account is similar to a block user account which permits multiple beacons to be assigned to a single account. However, National Data provider accounts are reserved for countries or administrations only. These accounts can only be created by the Cospas-Sarsat Secretariat.

National Data Provider accounts are created when a national administration informs Cospas-Sarsat of their decision to make use of the IBRD for beacon registration data for all or some beacons encoded with their country code, while retaining full responsibility for the collection, control and updates of all registration data associate with these beacons.

To request a National Data Provider account for an Administration, a letter using a format similar to the template found at <https://www.cospas-sarsat.int/en/documents-pro/document-templates> must be sent by mail or fax to the Cospas-Sarsat Secretariat (mail@cospas-sarsat.int or +1 514-954-6761)

The letter must be signed by the Administration's ICAO, IMO or Cospas-Sarsat Representative. Cospas-Sarsat will then reply, by letter, with the user accounts and passwords, for further distribution within the Administration by the appointed National IBRD Point of Contact.

If the National password has been lost, please contact the secretariat

3.1. Access National Beacons (National Data Providers)

National beacons are beacons that have been input by National Data Providers.

Note: If a beacon has been individually registered (i.e. by the beacon owner), it must be assigned to the national beacon list by the National Data Provider before it can be viewed under the national beacon list.

3.2. National Data Provider Options

Registration Tab:

Allows individual beacon registration

Search Tab:

Allows viewing of all beacon records with the Administration's country codes

Allows importing of data for multiple beacons from file

Allows exporting of data for multiple beacons to file

Admin Tab:

Allows the country to view which types of beacons are allowed to register.

Countries permitted to Register in the IBRD.

Country name	Country Code (MID)	Individual Registration Permitted			National Data Provider (NDP) Registration Permitted		
		PLB	ELT	EPIRB	PLB	ELT	EPIRB
United States	US	YES	YES	YES	YES	YES	YES

3.3. New Registration by National Data Provider

To register beacons individually, click on “**Registration** tab”.
Enter the beacon ID twice.

Create a password and enter it twice. Select a security question and type in the answer.
Click **NEXT**

Follow all Steps 1 to 5 as outlined in section 2 of this document making sure to enter all required fields below:

- Beacon ID
- Password
- Owner Name
- Owner phone number
- Owner phone number type (for example: home, cell, work, fax, other)
- Emergency contact Name
- Emergency contact phone number
- Emergency contact phone number type (for example: home, cell, work, fax, other)
- Vehicle Type
- Vehicle Name (not required for PLB)
- MMSI or Call Sign (for EPIRB only)
- Vehicle Registration Number (not required for PLB)

While the other fields are not required, the more information you provide, the better SAR services can assist you in the event of a distress. For example, the **Additional Data** field can be used to provide information on specific voyage plans and can be regularly updated.

3.4. Registering Multiple beacons by using an XML file

XML: eXensible Markup Language, is a flexible way to create common information formats and share both the format and the data on the World Wide Web, intranets, and elsewhere. The IBRD only accepts this type of format for the upload of records as described in the Cospas-Sarsat document D.004 - Operations Plan for the Cospas-Sarsat International 406 MHz Beacon Registration Database.

From the “**Search**” tab, click “**Import**”.

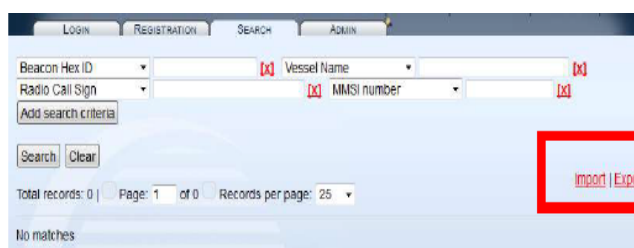
A window asking to choose a file will

appear.

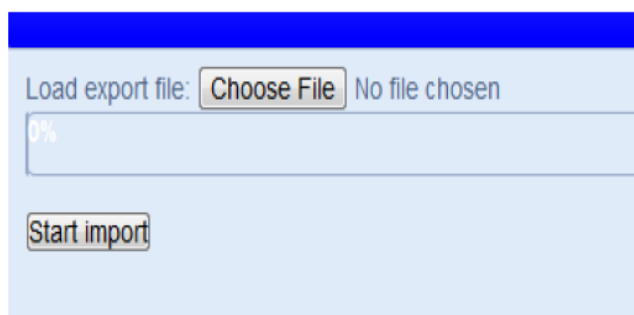
Click on “**Choose File**”

When the “Choose file” window appears, select the location where your XML file will be saved.

Select your file and click **Open**. Then, click “**Start import**”.



The screenshot shows the 'SEARCH' tab of the IBRD interface. It features search criteria fields for Beacon Hex ID, Vessel Name, Radio Call Sign, and MMSI number, each with a red 'x' icon. Below these fields are 'Search' and 'Clear' buttons. A red box highlights the 'Import | Export' link in the top right corner. The status bar at the bottom indicates 'Total records: 0', 'Page: 1 of 0', and 'Records per page: 25'.



The second screenshot shows a dialog box titled 'Load export file:'. It contains a 'Choose File' button and the text 'No file chosen'. Below this is a progress bar showing '0%'. At the bottom of the dialog is a 'Start import' button.

3.5. Download (Export) Records from IBRD

This option allows the National Data Provider to download or export a list of beacons registered by the

Administration. After downloading the data, it can easily be imported into a database software or spreadsheet.

The “**Search**” tab, will allow you to narrow your search with different criteria in the drop-down menus.

Click “**Export**”.

When the *Choose export format* window appears, select the format you wish to use. Then click “**Export**”.

Once the file is ready to be saved, you can click on “**SAVE TO DISK**”.

3.6. View or Update Registration

If you need to view or amend the registration information associated with a beacon, please complete the following steps.

After logging in as the National Data Provider, click on the **SEARCH** tab.

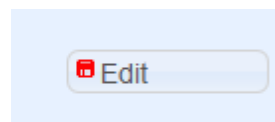
A list of beacons registered under your country code will appear.

**The National Data Provider can view all records, but can only edit the ones they have entered themselves.*



The screenshot shows the 'SEARCH' tab selected in the top navigation bar. Below the navigation bar, there are four search criteria fields: 'Beacon Hex ID', 'Vessel Name', 'Radio Call Sign', and 'MMSI number'. Each field has a red 'X' icon to its right. Below these fields is a button labeled 'Add search criteria'. Further down are 'Search' and 'Clear' buttons. At the bottom of the search section, it displays 'Total records: 0 | Page: 1 of 0 | Records per page: 25'. On the right side of this section, there are links for 'Import' and 'Export'. The main content area below shows 'No matches'.

Click the beacon record you wish to edit.



Enter the updated information and click

SAVE at the bottom of the step when done.

3.7. Acknowledgement Confirmation Request

Every two years, an email is sent if a valid email address has been provided with the beacon registration. This email serves a reminder to the recipient to update the registration information. As a National Data Provider, the email address should correspond to the person registering the beacons for the Administration.

4. National SAR Services and Authorized Inspectors User Accounts

a) National SAR Services

This account allows search and rescue (SAR) services to browse existing beacon records in the IBRD to obtain valuable information about the owner, vehicle, whereabouts, etc. All SAR services should have access for use in distress situations.

b) Authorized Ship and Aircraft Inspectors and Maintenance Facilities

This account is for inspectors and maintenance personnel who wish to confirm that a beacon has been registered. This access does not allow visibility into owner/operator information and is used only to confirm that a beacon is properly registered. Owner/operator contact information is hidden for users of this type of account.

To request user access for an Administration, a letter using a format similar to the template found at <https://www.cospas-sarsat.int/en/documents-pro/document-templates> must be sent by mail or fax to the Cospas-Sarsat Secretariat (mail@cospas-sarsat.int or +1 514-954-6761)

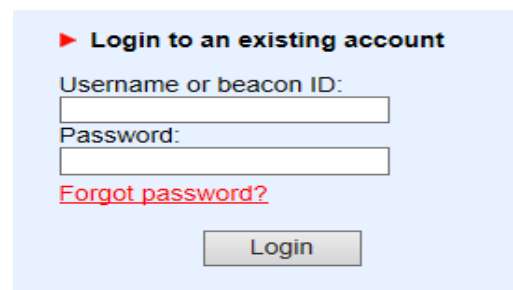
The letter must be signed by the Administration's ICAO, IMO or Cospas-Sarsat Representative. Cospas-Sarsat will then reply, by letter, with the user accounts and passwords, for further distribution within the Administration by the appointed National IBRD Point of Contact.

If the National password has been lost, please contact the secretariat

4.1. Beacon Search for SAR Services

Log in using the username and password provided to your National IBRD Point of Contact by Cospas-Sarsat.

Note: If you forgot your password, password reset information can be found by clicking on the link below the login button



► **Login to an existing account**

Username or beacon ID:

Password:

[Forgot password?](#)

After accepting the notice, you will be directed to the Search tab, where all beacon records are available for viewing.

Select search criteria in the drop down boxes to narrow the beacons displayed.

Search by beacon ID (hex ID) Select Beacon Hex ID in the drop down. Enter the beacon ID in the box to the right and leave everything else blank.

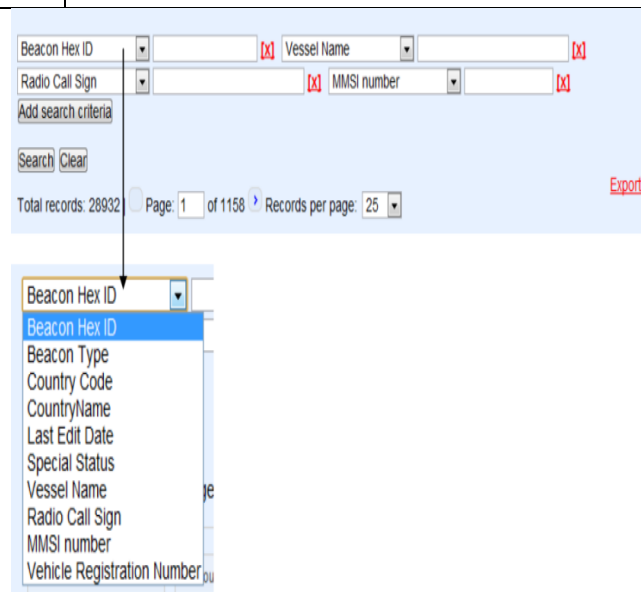
Then, click the '**SEARCH**' button.

Other search options are possible : Beacon ID, Country Code, Beacon Type, etc

Wildcards:

EG: Add only one "*" (asterisk) at the beginning or the end of the filter criteria. Enter at least 3 characters for a wildcard search on the beacon ID.

For other fields, one character and * is enough.



Search interface showing various criteria dropdowns: Beacon Hex ID, Vessel Name, Radio Call Sign, MMSI number. Includes 'Add search criteria', 'Search', and 'Clear' buttons. Below the buttons, it shows 'Total records: 28932', 'Page: 1 of 1158', and 'Records per page: 25'. An 'Export' button is visible on the right. A dropdown menu is open for 'Beacon Hex ID', showing options: Beacon Hex ID, Beacon Type, Country Code, CountryName, Last Edit Date, Special Status, Vessel Name, Radio Call Sign, MMSI number, and Vehicle Registration Number.

Export Search Results

Click “**Export**” at the right side of the screen
You can then import this file into Excel,
Access or other database programs.

On the “**SEARCH**” tab, you can narrow
your search to different criteria.

Click “**Export**”.

When the *Choose export format* window
appears, select the format you wish to
use.

Then click “**Export**”.

The file will be prepared and you will see
the progress bar.

Once the file is ready to be saved, click
“**SAVE TO DISK**”.

Then select the location to save file in