

Canadian Mission Control Center Canadian Beacon Registry



Beacon Manufacturers Workshop
Captain Keith Wohlgemuth

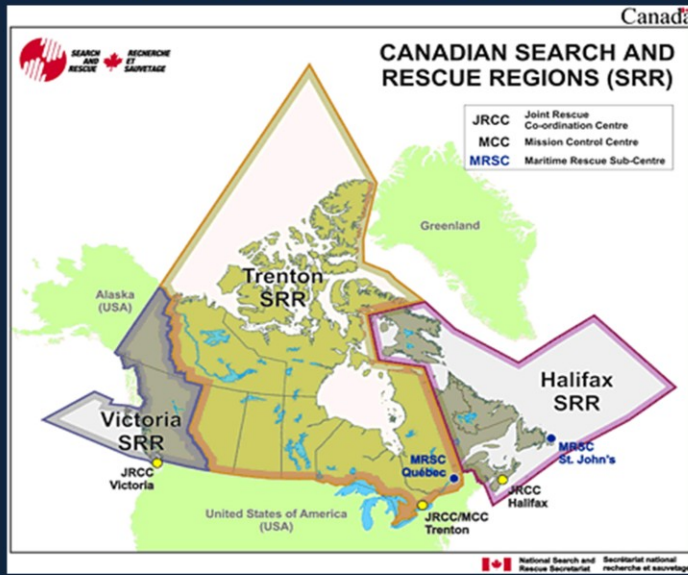


Outline

- CMCC & CBR Intro
- CBR Demo
- CBR Activity
- ABRC
- Beacon Anomalies
- What can you do to help?
- Contact Information and Questions



CMCC & CBR Intro - Canadian AOR



CMCC & CBR Intro

- Officer in Charge: Maj Gilles Bourgoin
- Deputy OIC: Capt Keith Wohlgemuth
- CBR Manager: Ms. Angie Cornish

- ~ 23,500 as of last BMW (May 2011)
- ~ 27,000 as of now (15% increase)
(contact info at end of presentation)



For the last year, we have only had 1 full time staff (plus 1 part time).

Stats are in separate slideshow for distribution.

CBR Demo

www.cbr-rcb.ca

- Rolled out on 17 Sept 2012
- Fully bilingual
- Fully accessible in accordance with current internet standards.
- How successful has the implementation been?
 - Old website – 1 to 2 calls per day on how to use the website.
 - New website – not 1 yet!!!
 - Normal usage rates.



The website is fully bilingual and fully accessible in accordance with common internet standards.

How well did this role out? We have had no major software bugs (little ones – yes).

 National Defence / Défense nationale
 Canada


Canadian Beacon Registry
www.cbr-rcb.ca

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Canadian Beacon Registry
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Canadian Beacon Registry - Welcome

The Canadian Beacon Registry is an integral part of COSPAS-SARSAT, the search and rescue satellite system designed to provide distress alert and location data to search and rescue authorities. The Canadian Beacon Registry is co-located with the Canadian Mission Control Centre (CMCC) at CFB Trenton, for use by responders in search and rescue operations.

When a 406 MHz emergency beacon signal is received, search and rescue authorities at CMCC can retrieve information from a registration database. This includes beacon owner contact information, emergency contact information, and vessel/aircraft identifying characteristics and equipment. Having this information allows search and rescue services to respond appropriately.

***** FOR BEACON TRANSFERS, PLEASE CONTACT THE CANADIAN BEACON REGISTRY AT 1-877-406-7671 or Via email to cbr@sarnet.dnd.ca *****

Why Register a Beacon?

It is mandatory for all 406 MHz ELTs (Canadian Aviation Regulations 605.38) and EPIRBs (Ship Station (Radio) Technical Regulations, 1999) to be registered with the Canadian Beacon Registry. Ensuring that your 406 MHz PLB, ELT or EPIRB is registered, as well as updating the information regularly, will facilitate the task for search and rescue personnel in the event of a distress situation.

If you have a registered emergency beacon, it is important that the information be accurate. Please update the information in the registry:

- if you move



Main page. Even though some of the screen captures are cropped, all pages maintain the same header.

Canadian Beacon

Registry

[Home](#)

[Frequently Asked Questions](#)

[Beacon Registration Forms](#)

[Login / Register Online](#)

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Frequently Asked Questions

1. [What is an emergency beacon?](#)
2. [What types of emergency beacons are there?](#)
3. [How does an emergency beacon work?](#)
4. [Is there any cost to registering an emergency beacon?](#)
5. [How do I know if my emergency beacon is Canadian coded and what does it mean if it is not?](#)
6. [How do I get my emergency beacon coded for Canada?](#)
7. [Can I purchase an emergency beacon in the US or another country outside Canada?](#)
8. [Why switch to a 406?](#)
9. [Will I get fined if I accidentally activate an emergency beacon?](#)
10. [Will the emergency beacon activate if its battery is expired?](#)
11. [If my emergency beacon is not in use, can I leave it in a safe place such as storage?](#)
12. [How do I decode my Beacon?](#)
13. [I've heard that 406 MHz homing equipment is very expensive to buy and quite cumbersome to operate. Do 406 MHz emergency beacons require 406 MHz homing equipment?](#)
14. [Do I need to have a 406 MHz EMT on board my aircraft if I file a flight plan with NAV Canada?](#)
15. [What is the difference between an emergency beacon with Global Positioning System \(GPS\) and one without GPS?](#)
16. [Does having a GPS-equipped emergency beacon improve search and rescue response time?](#)
17. [When the Cospas-Sarsat system ceases to process the 121.5/242 MHz signals, will the Canadian Mission Control Centre \(CMCC\) still receive an alert during a distress situation?](#)
18. [Will homing devices such as man overboard devices \(Maritime Survival Locator Devices - MSLDs\) that use 121.5 MHz be affected by Cospas-Sarsat decision to terminate processing of the 121.5 MHz?](#)
19. [What happens if I haven't purchased a 406 MHz emergency beacon to replace my 121.5 MHz beacon by February 1, 2009?](#)
20. [Is it true that Cospas-Sarsat requires that 406 MHz emergency beacons do not send a signal in the first 50 seconds following activation, to minimize false alerts?](#)
21. [What is the MEOSAR system and what is the status of it?](#)
22. [Will GPS equipped emergency beacons - or location protocol beacons - become obsolete with MEOSAR?](#)
23. [If my emergency beacon is not registered, will search and rescue authorities at Canadian Mission Control Centre \(CMCC\) be advised if the beacon is activated?](#)
24. [Once I register my emergency beacon, will the registration expire?](#)
25. [Will someone send me a reminder to renew my registration?](#)
26. [To whom is my emergency beacon registration information released?](#)
27. [Do I need a ship station license or a documentation number to register an EPIRB?](#)
28. [I have just purchased an emergency beacon from a manufacturer. Doesn't that mean it is already registered?](#)
29. [Will the dealer register my emergency beacon when I purchase it?](#)
30. [If I buy a new boat and use the emergency beacon from my old boat, do I need to register it?](#)
31. [If I sell my boat with an EPIRB, is it the new owner's responsibility to update the beacon registration?](#)
32. [If I buy a new emergency beacon for my vessel, do I need to register it? My former emergency beacon was registered therefore, isn't my information already in the registry?](#)
33. [How do I get my 24-bit aircraft identification number?](#)



1. [What is an emergency beacon?](#)

National Defence / Défense nationale

Canada

Canadian Beacon Registry

www.cbr-rcb.ca

Français Home Contact Us Help Search canada.gc.ca

[Home Page](#) > [Login / Register](#) > Personal Information

Owner Profile

PROFILE BEACON CONTACTS AIRCRAFT VESSEL LAND LOGOUT

User name: cmcc2@sarnet.dnd.ca (21667) [Change Password](#)

Your Profile

GILLES BOURGOIN
142 YUKON
ASTRA ONTARIO
K0K 3W0
CANADA
bourgoing@sarnet.dnd.ca

Your Phone Numbers On File

Work: CANADA (613) 965-7265

[Update your info](#)



Once logged in, the tabs are always visible.

Beacon Information

[PROFILE](#) [BEACON](#) [CONTACTS](#) [AIRCRAFT](#) [VESSEL](#) [LAND](#) [LOGOUT](#)

User name: cmcc2@sarnet.dnd.ca (21667)

If you are registering a new beacon, you can enter your information here. If you have bought your beacon from a previously registered owner you will need to contact the Canadian Beacon Registry (CBR) to inform them of your purchase. They in turn can transfer all beacon information to your account. Once you've registered your beacon be sure to register emergency contacts to the beacon as well as where that beacon will be used. For example, on an aircraft, vessel or land activity.

To register a new beacon click on the '[+ Add A Beacon link](#)'.

To view registered beacon information, click on the beacon hexcode or nickname.

To edit information on a registered beacon, click on the beacon hexcode or nickname then click the edit link and follow the instructions given.

**** Please add a minimum of two emergency contacts to your registration. Click on CONTACTS tab to add your emergency contacts. Once added, please attach them to the specific beacon that they correspond to. ****

Your Registered Beacons

[+ Add A Beacon](#)

278784000FFBFF	Updated 3 January, 2012
278E6DA9B8FFBFF	Updated 30 July, 2012
2794F1203F81FE0	Updated 3 January, 2012

278784000FFBFF	Updated 3 January, 2012
278E6DA9B8FFBFF	Updated 30 July, 2012
Type	PLB [Edit]
Current Status	Active and in Use
Current Location	TESTING (assignment)
Emergency Contacts	BRUCE WAYNE CMCC DUTY OPERATOR
2794F1203F81FE0	Updated 3 January, 2012



Beacon info expanded.

Edit Beacon Information

PROFILE BEACON CONTACTS AIRCRAFT VESSEL LAND LOGOUT

User name: cmcc2@sarnet.dnd.ca (21667)

Beacon Information

Hex Code 278E6DA9B8FFBFF
Type PLB
Manufacturer ACR Electronics Inc
Model PLB-375 (ResQLink)
Status Active and in Use
Internal Tracking
Number / Nickname
Comments
Date Registered 2011-11-08 15:09:47.000
Last Updated On 2012-07-30 17:32:08.000

Save

[Cancel](#)



Edit beacon.

Enter Beacon Information

PROFILE

BEACON

CONTACTS

AIRCRAFT

VESSEL

LAND

LOGOUT

User name: cmcc2@sarnet.dnd.ca (21667)

The Hexcode and Checksum information can be found on the beacon you wish to register. The Checksum, while optional, will allow the system to verify that the Hexcode you have entered is in fact correct.

Beacon Information

* - Required

Enter Beacon Hex
Code

=

Enter Beacon
Checksum

Save

[Cancel](#)

Add beacon.

[PROFILE](#)
[BEACON](#)
[CONTACTS](#)
[AIRCRAFT](#)
[VESSEL](#)
[LAND](#)
[LOGOUT](#)

User name: cmcc2@sarnet.dnd.ca (21667)

Your emergency contacts will receive the initial phone call from Search & Rescue should your beacon send a distress signal. It is therefore imperative that you keep your emergency contacts up to date.

To register a new contact, click the '+ Add A Contact'.

To View information about a registered contact, click on the contact's name.

To edit or update information about a registered contact, click the contacts name, then click the edit link.


Edit Contact Information

Beacon(s) assigned
 No beacons assigned

[+ Add A Contact](#)

BRUCE WAYNE	Updated: 26 September, 2012
BRUCE WAYNE	Updated: 26 September, 2012
CMCC DUTY OPERATOR	Updated: 26 September, 2012

Contact CMCC DUTY OPERATOR [[Edit](#)]
 Phone Numbers **Work** (613) 392-2811
 Contact For Beacon 278784000FFBFF
 278E6DA9B8FFBFF
 2794F1203F81FE0



Contacts.

Enter Contact Information

* - Required

First Name *

Last Name *

First Language *

Company

Address 1

Address 2

City

Country

Province/State

Postal Code

Email

Relationship

Comments

Contact For Beacon

Beacons [278794000FF8FF \[Remove this beacon\]](#)
[2788504988FF8FF \[Remove this beacon\]](#)
[2794F1203F81FE0 \[Remove this beacon\]](#)

Contact For Beacon

Contact Number

NOTE Enter your contact numbers in the order you wish to be contacted.
I.E. first number on the list will be called first, second on the list will be contacted second, etc.

Phone Type *

Country *

Area Code *

Phone Number *

Extension (Maximum 6 digits)

Phone Type

Country

Area Code

Phone Number

Extension (Maximum 6 digits)

Edit / add contact. Top right screen capture is at the top if editing a contact.

Aircraft Information

PROFILE BEACON CONTACTS AIRCRAFT VESSEL LAND LOGOUT

User name: cmcc2@sarnet.dnd.ca (21667)

If you are registering an Emergency Locator Transmitter (ELT), you must have a registered aircraft to place this beacon on. This will give Search & Rescue some sort of indication of the type of aircraft that may be in distress.

To register a new aircraft, click on the '[+ Add Aircraft](#)' link and follow the instructions given.

To view registered aircraft information, click on the aircraft tail number.

To edit information on registered aircraft, click on the tail number then click the edit link and follow the instructions given.

*** Please add a minimum of two emergency contacts to your registration. Click on CONTACTS tab to add your emergency contacts. Once added, please attach them to the specific beacon that they correspond to. ***


Your Registered Aircraft

Beacon(s) assigned
 No beacons assigned

[+ Add Aircraft](#)

C-10UF
Updated: 26 September, 2012

Tail Number	C-10UF [Edit]
Manufacturer	Cessna
Model	172
Type	AEROPLANE
Beacons	278784000FFBFF



Aircraft – aircraft info expanded.

Beacons

Beacons [Remove Beacon](#)

Attach Beacon

Edit Registered Aircraft Information

* - Required

Aircraft Serial Number *

Tail Number *

Manufacturer *

Model *

Type *

Home Airport *

Propulsion Type *

Engines

Primary Colour *

Secondary Colour *


Features

Radio Equipment

Number of Crew *

Number of Seats *

Comments



Edit (add) aircraft.

Vessel Information

User name: cmcc2@sarnet.dnd.ca (21667)

If you are registering an Emergency Position Indicating Radio Beacon (EPIRB), you must have a registered vessel to place this beacon on. This will give Search & Rescue some sort of indication of the type of vessel that may be in distress.

To register a new vessel, click on the '+ Add Vessel' link.

To view registered vessel information, click on the vessel name.

To edit information on a registered vessel, click on the vessel name then click the edit link and follow the instructions given.

*** Please add a minimum of two emergency contacts to your registration. Click on CONTACTS tab to add your emergency contacts. Once added, please attach them to the specific beacon that they correspond to. ****

Your Registered Vessels

Beacon(s) assigned
No beacons assigned

[+ Add Vessel](#)

Vessel Name	Updated:
FV KEN DRYDEN	26 September, 2012
+ Add Vessel	
Vessel Name	FV KEN DRYDEN [Edit]
Call Sign	HABS
Vessel Type	FISHING - COMMERCIAL
MMSI Number	31600000
Beacons	2794F1203F81FE0

Vessel Information

* - Required

Vessel Name *

Call Sign *

Registration Number *

Home Harbour *

Number of Crew Members *

Hull Colour *

Sail Colour

Structure Colour *

Hull Type *

Vessel Type *

Propulsion Type Propulsion Method

Special Features

Length (meters) *

Tonnage

Radio Equipment

Inmarsat Number

MMSI Number

Comments

Vessel tab, again same look and feel. Edit vessel (plus the common part at the top to remove or add a beacon to the vessel just like the aircraft page.

Personal Activity Information

PROFILE BEACON CONTACTS AIRCRAFT VESSEL LAND LOGOUT

User name: cmcc2@sarnet.dnd.ca (21667)

If you are registering an Personnel Locator Beacon (PLB), it is recommended that you indicate situations where you will be using your PLB. This will give Search & Rescue some sort of indication of the situation you may be in should they receive a distress signal. This can be done by registering your PLB Activity.

To register a new activity, click on the '+ Add PLB Activity' link and follow the instructions given.

To view registered PLB activity information, click on the Activity Name.

To edit information on registered activity, click on the activity name then click the edit link and follow the instructions given.

*** Please add a minimum of two emergency contacts to your registration. Click on CONTACTS tab to add your emergency contacts. Once added, please attach them to the specific beacon that they correspond to. ***

Your Registered Land Activity

Beacon(s) assigned
No beacons assigned

[+ Add PLB Activity](#)

TESTING	Updated: 26 September, 2012
CMCC	Updated: 27 September, 2012

Nickname / Activity..... CMCC [[Edit](#)]

Additional Information

This beacon is held in CMCC and is made available for sign out by CMCC and JRCC Trenton members. It is occasionally used for testing. Either way, the CMCC Operator will have further information and trip plans.

Beacons..... 278E6DA9B8FBFF



Land use tab for detailed PLB use.

Beacons

Beacons 278E6DA98BFFBF [Remove]

Attach Beacon --Select--

How do you use your PLB?


* - Required

Nickname / Activity for this PLB CMCC =

Activities

Land	Sea	Air
Hiking <input type="checkbox"/>	Boating <input type="checkbox"/>	Handgliding <input type="checkbox"/>
Fishing <input type="checkbox"/>	Kayaking <input type="checkbox"/>	Flying <input type="checkbox"/>
Mountain Climbing <input type="checkbox"/>	Fishing <input type="checkbox"/>	UltraLight <input type="checkbox"/>
Hunting <input type="checkbox"/>	Sailing <input type="checkbox"/>	Details <input type="text"/>
Details <input type="text"/>	Details <input type="text"/>	

Additional Information This beacon is held in CMCC and is made available for sign out by CMCC and JRCC Trenton members. It is occasionally used for testing.



Land use tab for detailed PLB use.

The screenshot shows the Canadian Beacon Registry website interface. At the top, there is a header with the Canadian flag, the text "National Defence / Défense nationale", and the "Canada" logo. Below this is a banner for the "Canadian Beacon Registry" with the URL "www.cbr-rcb.ca". A navigation bar includes links for "Français", "Home", "Contact Us", "Help", "Search", and "canada.gc.ca". A breadcrumb trail reads "Home Page > Login / Register > Contacts".

The main content area is titled "Registered Contacts" and features a menu with options: "PROFILE", "BEACON", "CONTACTS", "AIRCRAFT", "VESSEL", "LAND", and "LOGOUT". The "CONTACTS" option is currently selected. The user's name is displayed as "User name: cmcc2@sarnet.dnd.ca (21667)".

A green-bordered box contains the message: "Contact information updated Complete". Below this, a paragraph explains that emergency contacts will receive an initial phone call from Search & Rescue and that it is imperative to keep contact information up to date. It provides instructions on how to register a new contact, view information about a registered contact, and edit or update information about a registered contact.

The "Edit Contact Information" section shows a legend for beacon status: a dark blue square for "Beacon(s) assigned" and a light grey square for "No beacons assigned". A "+ Add A Contact" link is present. Below this, a table lists a contact named "BRUCE WAYNE" with an "Updated: 26 September, 2012" timestamp. The contact details are as follows:

Contact	BRUCE WAYNE [Edit]
Phone Numbers	Cellular (613) 444-5555

A small circular logo with a red maple leaf is located in the bottom right corner of the page.

Note appears after any save.

Admin Home

[ADMIN HOME](#) [OWNERS](#) [SEARCH](#) [SYSTEM MAINTENANCE](#) [REPORTS](#) [LOGOUT](#)

Register Contact For Owner


% - Wildcard


Owner Information

Search by Owner Name:

Search by Company Name:


Admin Notes Only:

 National Défense nationale


Canadian Beacon Registry
www.cbr-rb.ca

[Français](#) | [Home](#) | [Contact Us](#) | [Help](#) | [Search](#)

[Home Page](#) > [Login / Register](#) > Personal Information



For admin and SAR responders only, we now have admin notes available.

CBR Activity

- ELT's with no 24 bit
- Unregistered ELT's with 24 bit
- Mismatch ELT's – Registered tail vs 24 Bit
- Location protocol – not *FFBFF
- 4th digit miscode
- Mass mail out



Further details:

ELT's with no 24 bit: Canadian coding requires ELTs to use serial user with 24 bit address. Those not matching this were verified for errors.

Unregistered ELT's with 24 bit: Unregistered ELTs with a 24 bit encoded that were identified through Alerts and the ABRC were sent to the CBR who can quickly correlate to a specific Canadian aircraft and contact the owner for registration.

Mismatch ELT's – Registered tail vs 24 Bit: When differences between the 24 bit encoded information (and the associated tail mark) and the aircraft tail number in the registration file were found, the reasoning was checked to verify the right beacon was registered to the right aircraft and beacon coding was correct.

Location protocol – not *FFBFF: Hex ids verified for default values in the registry files.

4th digit miscode: Typing errors have been noted when people enter a '0' instead of a 'D' for the fourth character.

Mass mail out: A letter was mailed to all owners who's files had not been updated in the preceding year.

CBR Activity

- Mass emails
- Paper file verification
- Beacon replacement with updated TAC
- Data cleansing preparing for new website
- Ownership transfers
- Hex id pattern recognition



Mass emails: Similar to the mass mail outs, emails were sent to all owners who had files that had not been updated in the prior year.

Paper file verification: All paper files were verified to ensure the accurate entry of all data.

Beacon replacement with updated TAC: Beacons found that had been replaced with a newer model. The replacement beacon was recoded with the same information as the old beacon however, due to the new TAC number, the code changed and was not updated. Affected TAC numbers checked and corrected as required. The ABRC highlighted this issue.

Data cleansing preparing for new website: Detailed analysis of all fields to verify format and completeness of data for transition into new and more stringent database. Many bits of missing data found and corrected (ie phone numbers missing 1 or 2 numbers).

Ownership transfers: Many of the above activities generated replies from beacon owners that they had sold their beacon (and vessel / aircraft). These transfers were

completed.

Hex id pattern recognition: Many patterns identified to speed the recognition of improper codes. This helps ensure that more errors of many types are captured and corrected in registration files.

CBR Activity

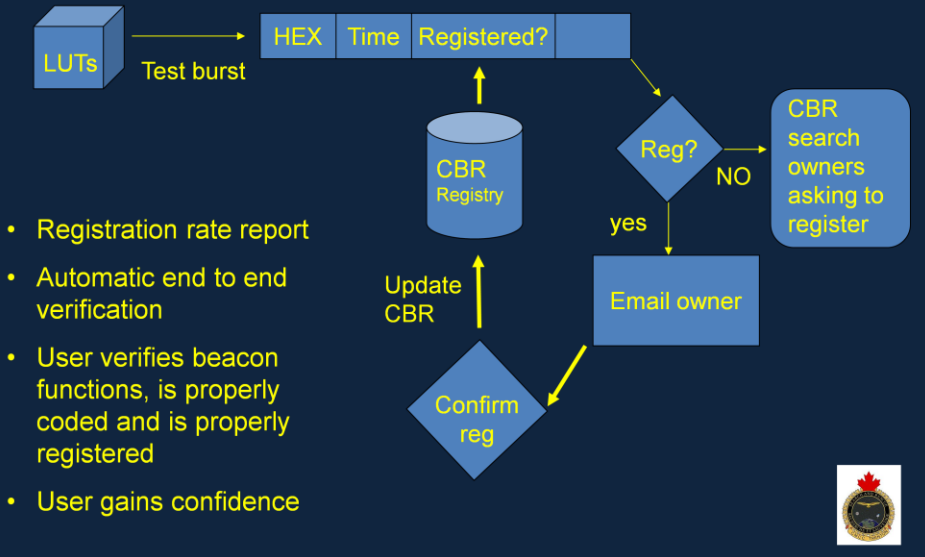
- CBR SOPs and training package
 - Acceptable practices (ie exchange of information)
 - Tracking of unregistered beacons
 - Pattern recognition
 - Peer verification of CBR inputs
 - Improving CBR service to *all of our customers*
- Improving stats



SOP's and training package: General improvement in the service that we offer beacon owners. These

Through all of our efforts, we have been impressing on beacon owners the importance of accurate information. During times that we have found errors and alerted beacon owners requesting their help to correct it, they have been overwhelmingly impressed that we are watching their backs and correcting these errors. This has started to gain us an extremely positive reputation with owners = owners talk = more beacons registered.

ABRC – BMW 2011 slide: What we are proposing

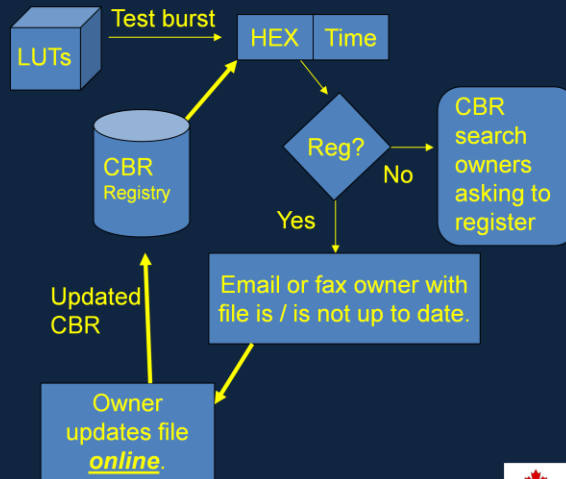


This is the idea that we were ‘dreaming’ of at the last BMW in May 2011. Today, it is in the last parts of Beta Testing and will be soon moving into a more stabilised version.

ABRC – Beta phase Feb 12

Automatic Beacon Registry Checker

- Registration rate report
- Unregistered report
- Fax report
- Gives automatic end to end verification
- User verifies beacon functions, is properly coded, registered, and up to date
- User gains confidence
- Identifies outdated files
- Reduces workload



First the response from the public: [insert email is in march from Angie]

Please remember that all of the CBR activity already discussed predates this software. These CBR activities have helped to correct outdated and invalid information and to condition the public to being asked to update their files.

How does it work: Automatically! It is a service running on one of our desktop computers (soon to migrated to a service on a server).

The Canadian test bursts on our backup LUT are compared to the registration database. If they are unregistered, the hex id is added to a list that is emailed to the CBR every two weeks for CBR follow-up. For the hex ids that are registered, the registration is checked for an email or fax and if it is current. An email (or fax if no email is available) is generated with a message to alert the owner that their test was received, there was xx bursts received in the last xx days, and that their file is up to date (not up to date). If it is not up to date, a sentence is added directing them to login to the website (or call the CBR) and update their file. For those that do not have either an email or fax, they are added to a list that is also emailed to the CBR every two weeks for manual follow-up.

We have a limit of one email/fax per day. The exception is that if we receive more than 30 bursts in a calendar day, we send another email

(and cc our CMCC Duty Operator and the CBR) advising the excess test bursts that have been received.

Registration rate report – based on inverted frame bursts

Unregistered report – as detailed above

Fax report – summary of faxes sent is emailed to CBR every two weeks

Gives automatic end to end verification for the owner

User verifies beacon functions, is properly coded, registered, and up to date

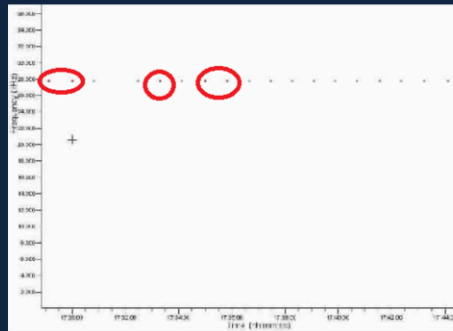
User gains confidence

Identifies outdated files – The CBR is cced on all emails. Also, if an email fails, the CBR is also alerted. These files are then tagged for manual follow-up.

Ultimately reduces workload by educating beacon users, allows for an automatic message to be distributed, and especially points beacon owners to do what we want (update their files) and do it online.

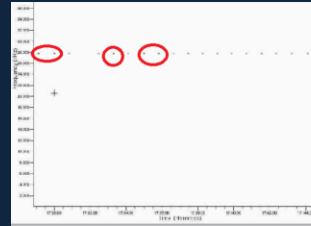
Beacon Anomalies

- Switching between Test protocol and real code
 - ELT's (real and false alarm cases)
 - EPIRB (real distress and no distress – both with resources launched)



Beacon Anomalies

- Switching between Test protocol and real code
 - ELT's (real and false alarm cases)
 - EPIRB (real distress and no distress – both with resources launched)
- Random not user initiated continuous inverted frame sync (ABRC now alerting = CMCC or CBR follow-up)



What can Manufactures do?

- Support us so we can support YOUR customers!
- How?
 - Can you share the Canadian Hex ids (especially EPIRB and PLB) that you manufacture and their owners / contacts? If not, who are your vendors?
 - Vendors often have no information for owners and they call us instead. Once resellers educated, better registration.
 - Resellers do say to register the beacons!
- How can we help you?



Info – email to CBR

New registration forms will have info on back side. There will be two, one in English and one in French. We will have them posted on our website in the next few weeks as we have to have them translated.

Contact Information

Canadian Beacon Registry

c/o CMCC

8 Wing Trenton

PO Box 1000 Station Forces

Astra, Ontario K0K 3W0

p. 1-877-406-7671 f. 1-877-406-3298

cbr@sarnet.dnd.ca www.cbr-rcb.ca

Ms. Angie Cornish

CBR Manager

613-965-3716

cornisha@sarnet.dnd.ca

CMCC:

Major Gilles Bourgoin

Officer in Charge

613-965-4148

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bourgoing@sarnet.dnd.ca

Captain Keith Wohlgemuth

Deputy Officer in Charge

613-965-7174

cell: 613-242-3836

wohlgemuthk@sarnet.dnd.ca



Questions

