



Inmarsat SafetyNET II Handbook

First Edition

First Edition

Published in November 2018
By Inmarsat Maritime Safety Services
Inmarsat Global Ltd
99 City Road
London EC1Y 1AX
United Kingdom

Document History

1th Edition (PDF), November 2018

Whilst every effort has been made to ensure that the information contained in this handbook is correct, neither the authors nor Inmarsat Global Ltd. can accept responsibility for errors, or omissions, or for any consequences resulting therefrom.

All rights reserved.

1.	Introduction	4
2.	System Overview	4
3.	Interface Access	6
3.1.	Login	6
3.2.	Password Recovery	6
3.3.	Navigating SafetyNET II	7
3.4.	Customize Desktop	8
3.5.	Change Password	10
4.	SafetyNET II functionalities	10
4.1.	Access capability and contingency broadcasters	10
4.2.	Broadcasting EGC	11
4.3.	View Broadcasts & Status	16
4.4.	Cancel MSI Broadcast	17
4.5.	MSI Broadcast Data Export	18
4.6.	MSI Broadcast Report	20
5.	Customer Support	22

Figure 1	SafetyNET II overview.....	5
Figure 2	Login	6
Figure 3	Password Recovery	7
Figure 4	SafetyNET II display window	8
Figure 5	Maximise and minimise display	8
Figure 6	Customize desktop window	9
Figure 7	Change Password window	10
Figure 8	Create MSI (EGC) Broadcast.....	11
Figure 9	Select MSI type	11
Figure 10	Navigational Service Codes	12
Figure 11	Meteorological Service Codes.....	12
Figure 12	Select Priority	12
Figure 13	Select area of broadcast.....	13
Figure 14	Select Broadcast date / time	14
Figure 15	Set Repetition code	14
Figure 16	Enter Broadcast text.....	15
Figure 17	MSI Overview	15
Figure 18	MSI Broadcast list	16
Figure 19	Cancel MSI Broadcast.....	17
Figure 20	MSI Broadcast export data	18
Figure 21	MSI Broadcast export data	19
Figure 22	MSI Broadcast repetition creation.....	20
Figure 23	MSI Broadcast report example	21

1. Introduction

This document provides a description of the SafetyNET II system, which is part of the Inmarsat Maritime Safety Services offering. This Handbook is intended for Maritime Safety Information Providers (MSIPs) and provides a high-level description of the features available. For more in-depth information on EGC broadcasts and the SafetyNET infrastructure, please refer to the MSC.1/Circ.1364/Rev.1 International SafetyNET Manual as amended.

SafetyNET II is an enhancement to the SafetyNET system and provides greater functionalities and control to MSIPs. SafetyNET II provides an interactive web interface for MSIPs to create their MSI messages and deliver them over multiple systems simultaneously, including Inmarsat C, Mini C and Fleet Safety.

2. System Overview

SafetyNET II enables MSIPs to perform all the functions available to SafetyNET users as well as new innovative features to further assist with the dissemination and monitoring of EGC broadcasts. This enables Broadcast of navigational and meteorological warnings, meteorological forecasts, shore-to-ship distress alerts (RescueNET), SAR information and other urgent information in accordance with the requirements of the International Convention for the Safety of Life at Sea.

SafetyNET II functionalities:

- > Broadcast Navigational warnings
- > Broadcast Meteorological warnings
- > Broadcast Meteorological forecasts
- > Shore-to-ship Distress
- > Shore-to-ship SAR broadcasts
- > Enhanced scheduling
- > Manual cancellation of broadcasts
- > Monitoring of broadcast status
- > Export of broadcast information
- > Reporting tool on usage and type of messages
- > Customizable GUI (Graphical User Interface)
- > Text input method and IA5 format checking

SafetyNET II users do not require any specialised or satellite equipment to utilise the SafetyNET II system.

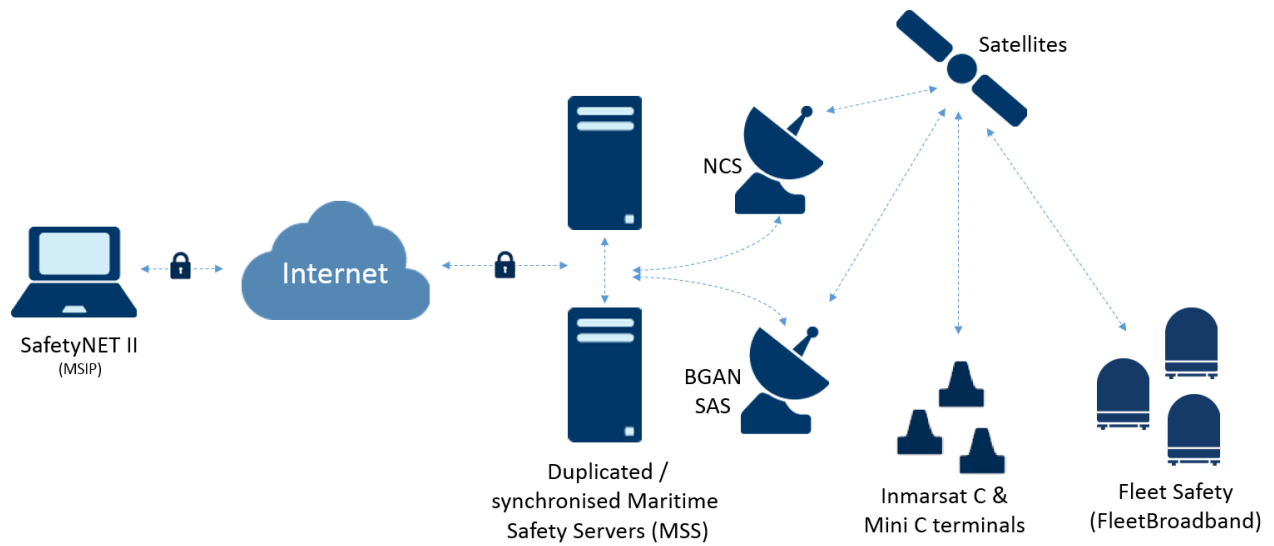


Figure 1 SafetyNET II overview

Note: The MSIPs are responsible for providing reliable communication links to the system's network for efficient handling of EGC broadcasts, preferably via dedicated communication links in-line with IMO Resolution A.1001(25).

3. Interface Access

3.1. Login

To access the SafetyNET II service, you must use a recognised Web Browser such as Google Chrome or Firefox. The Web Browser must be up to date with the latest software release.

From the chosen Web Browser, go to <https://msds.inmarsat.com/msds/>

The following login box will appear where you can enter your "Login" and "Password".

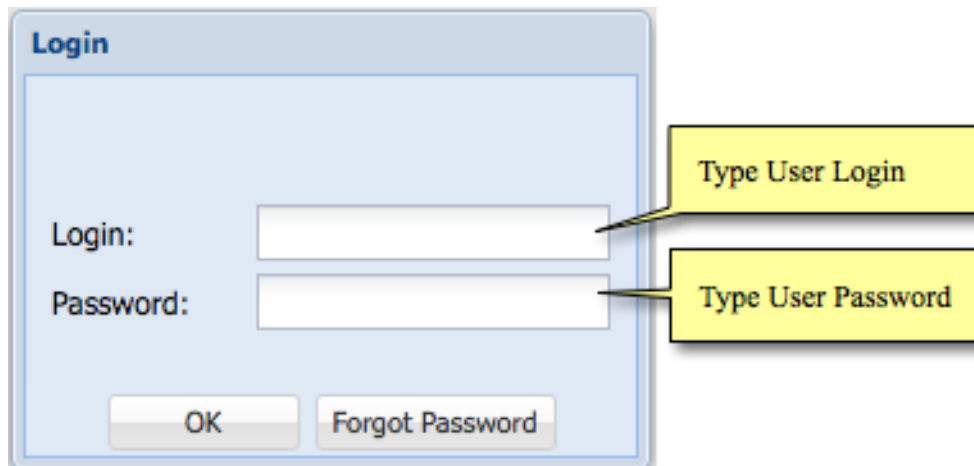


Figure 2 Login

Note: this is a <https://> secure login. If your web browser returns "page unavailable" information, ensure you enter <https://> before msds.inmarsat.com/msds/.

3.2. Password Recovery

If you lose or forget your password to SafetyNET II, the system allows you to reset your password through the registered e-mail address of your account.

- > Select "Forgot Password"
- > The system generates a token and sends it to the registered e-mail address
- > You can define a new password by inserting Token
 - Username
 - New password / confirm password

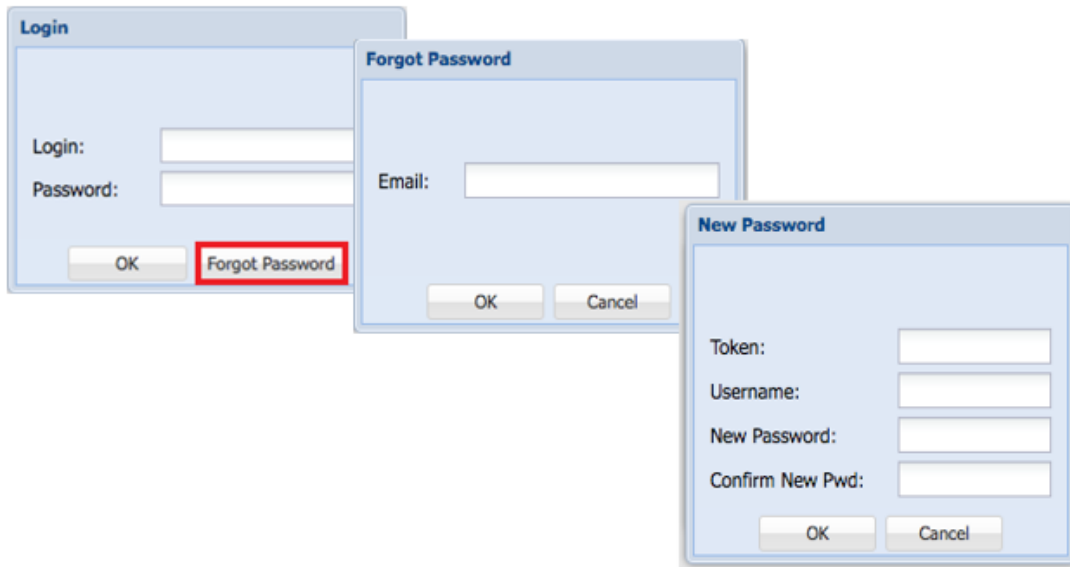


Figure 3 Password Recovery

3.3. Navigating SafetyNET II

The main SafetyNET II application window is very similar to a Microsoft Windows desktop and contains:

- > **Workspace:** the main area where all windows are displayed.
- > **Taskbar:** a toolbar on the bottom, containing the start menu, labels for all open windows, and the system clock.
- > **Start Menu:** a menu with all operations available to you.
- > **System Clock:** displays the current UTC timestamp.
- > **Windows:** windows display different types of information and allows you to execute operations.

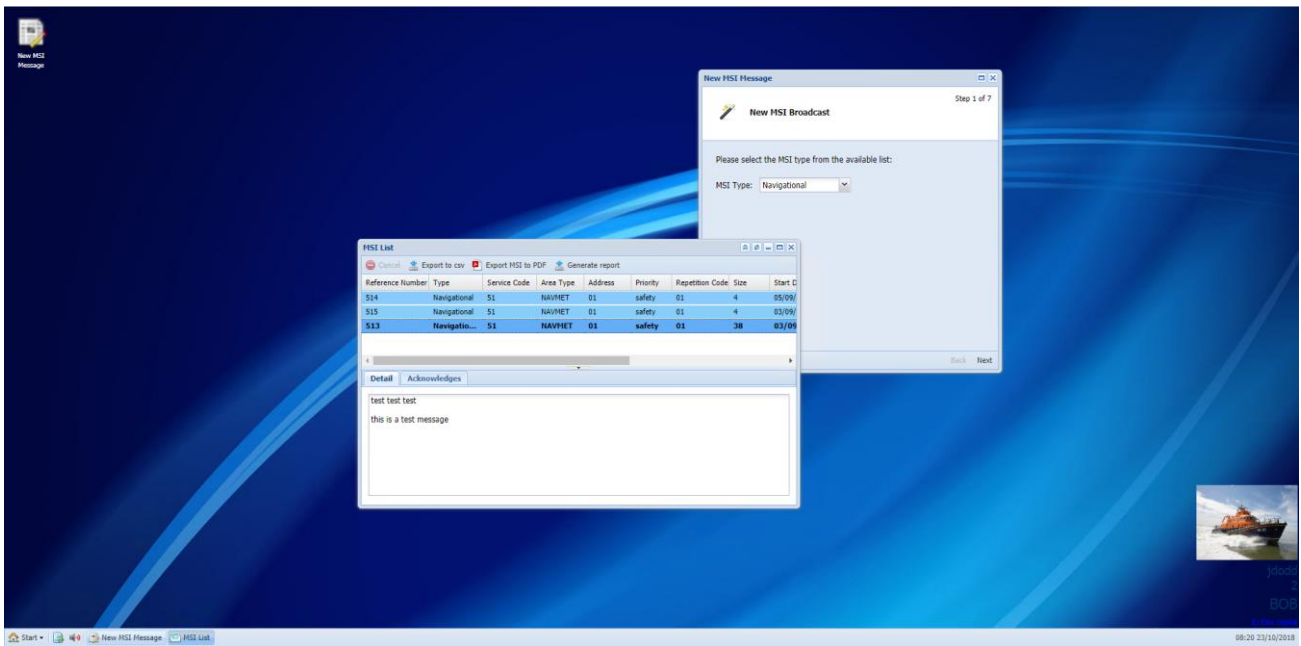


Figure 4 SafetyNET II display window

Windows are displayed in the workspace and can be reloaded, resized, moved, minimized and closed.

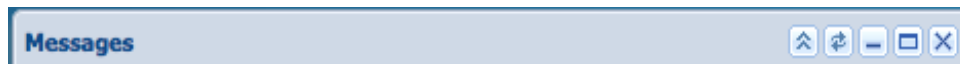


Figure 5 Maximise and minimise display

3.4. Customize Desktop

You can customize your desktop screen by:

- > Selecting from a number of different desktop backgrounds
- > Adding icons on main screen rather than from the start menu
- > Adding customer logo

Go to **"Start" > "Control Panel" > "Customize Desktop menu"**

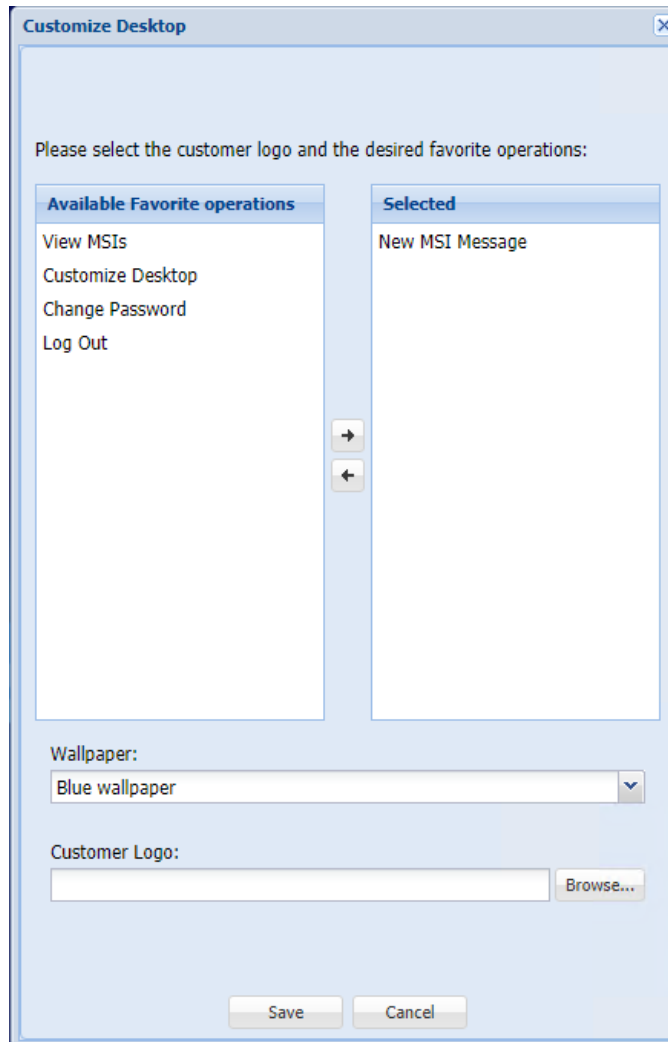


Figure 6 Customize desktop window

3.5. Change Password

Inmarsat recommends changing your password regularly and in-line with your company cyber security policies. By clicking the "Change Password" button on the start menu, you can change the password and set-up a new one by entering your old password followed by the new password and confirming the new password.

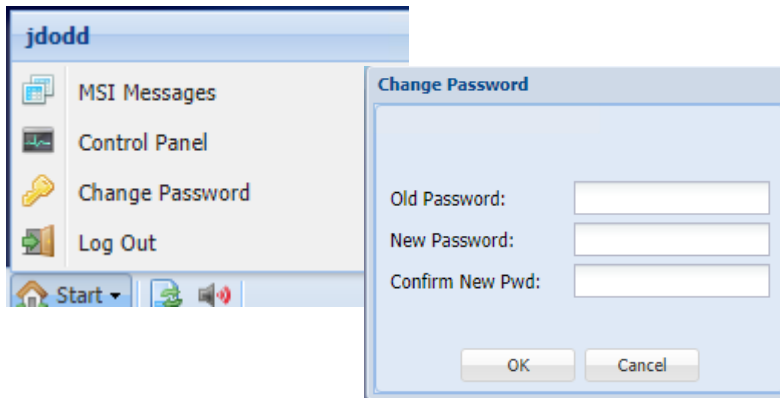


Figure 7 Change Password window

4. SafetyNET II functionalities

4.1. Access capability and contingency broadcasters

When you apply for access to the SafetyNET II system, you will be setup as a Navigational or Meteorological MSIP and only these type of broadcasts will be made available to you for your specific area of responsibility (NAV/METAREA).

If you have an agreement to act as a contingency broadcaster for a different NAV/METAREA, Inmarsat will require written confirmation from both parties to enable access to additional NAV/METAREAs within your SafetyNET II login.

We can also give access to both Navigational and Meteorological broadcasts. If you are acting as a contingency broadcaster for another certified authority, written confirmation is required.

4.2. Broadcasting EGC

To create a EGC broadcast go to **"Start" > "MSI Messages" > "New MSI Message"**.

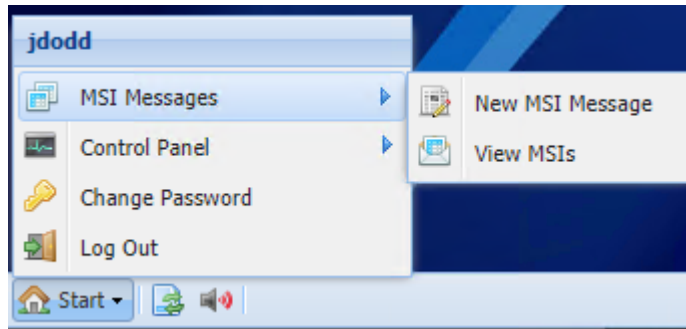


Figure 8 Create MSI (EGC) Broadcast

If you have dual functions i.e. Navigational and Meteorological capabilities you must select the correct MSI type.

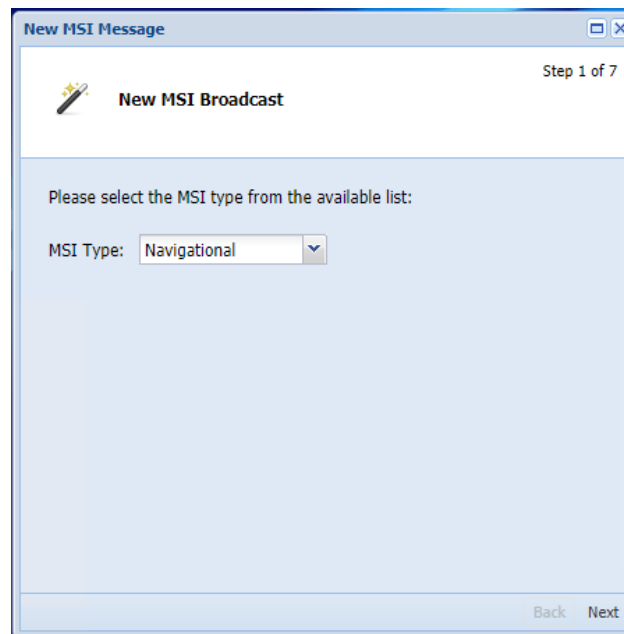


Figure 9 Select MSI type

Select "Service Code" for the type of broadcast required

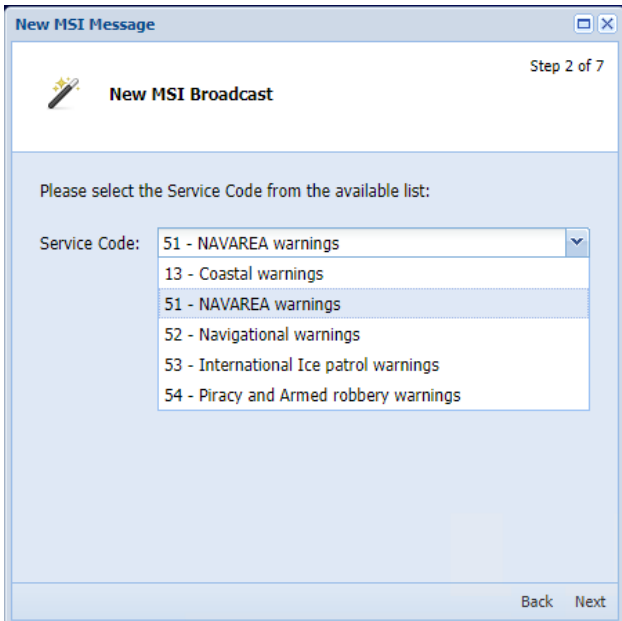


Figure 10 Navigational Service Codes

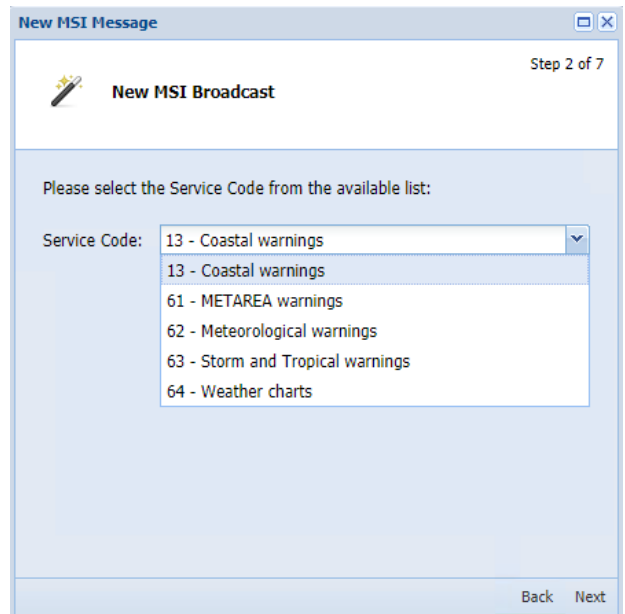


Figure 11 Meteorological Service Codes

NOTE: The Navigational and Meteorological service codes can be customized on request to have certain codes removed if you do not require them.

Select "Priority" of your broadcast in compliance with MSC.1/Circ.1364/Rev.1 International SafetyNET Manual as amended and WMO No. 558.

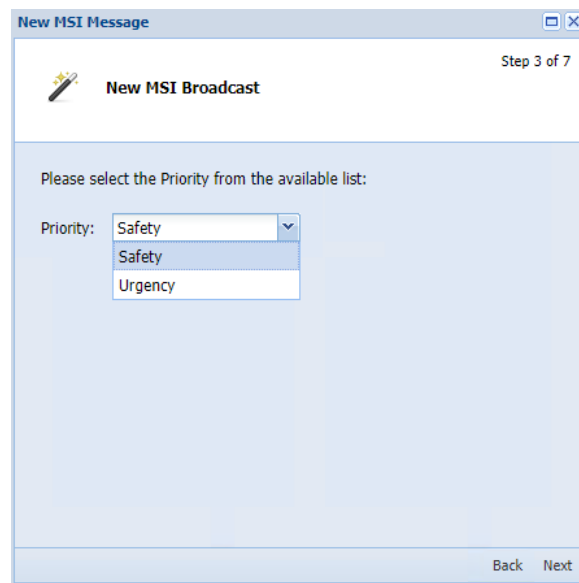


Figure 12 Select Priority

Select a "Broadcast Area type", i.e. Circular, Rectangular or NAV/METAREA.

Figure 13 Select area of broadcast

Input the centre of the Circular area. The system specifies the GPS coordinates in several formats:

- > Latitude (degrees^o|d|:) (minutes'|:|') (seconds"| ' ') (N/S)
- > Longitude (degrees^o|d|:) (minutes'|:|') (seconds"| ' ') (E/W)

For example, all the following GPS positions are allowed:

- > 20N 30E
- > 20 30 (positive numbers are North and East)
- > 20°N 30°10'20"E
- > 20°N 30E10'20"
- > 20°N 30E10,20
- > 20°N 30E10:20
- > 20S 30W
- > -20 -30 (Negative numbers are South and West)

Select "Radius" in Nautical Miles up to 999.

Select "Start date/time and End date/time". If this is left blank, the message will be broadcast immediately.

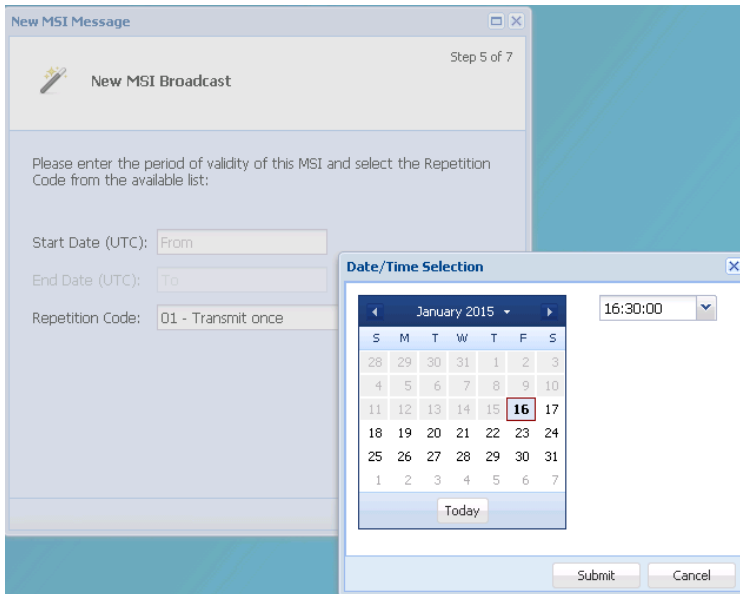


Figure 14 Select Broadcast date / time

Set the "Repetition Code" for the message.

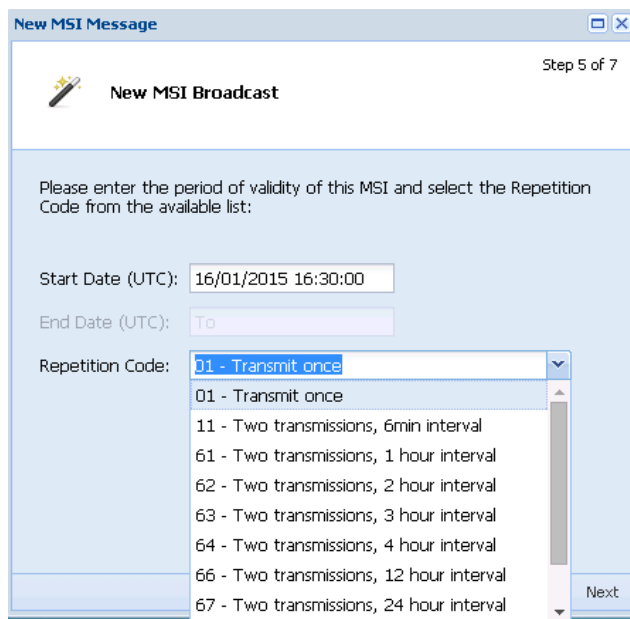


Figure 15 Set Repetition code

Enter Text by either copy or pasting a text or by selecting file to be uploaded.

Note: The system only allows valid IA5 characters in the payload message inserted directly in the form or uploaded by file. Any invalid character will be notified to you, but not replaced. You should correct the text and resubmit the form.



Figure 16 Enter Broadcast text

Confirm message parameters are correct and click "Finish" to broadcast the message to both Fleet Safety, Inmarsat C and Mini C terminals. Each MSI will have a unique message reference number.

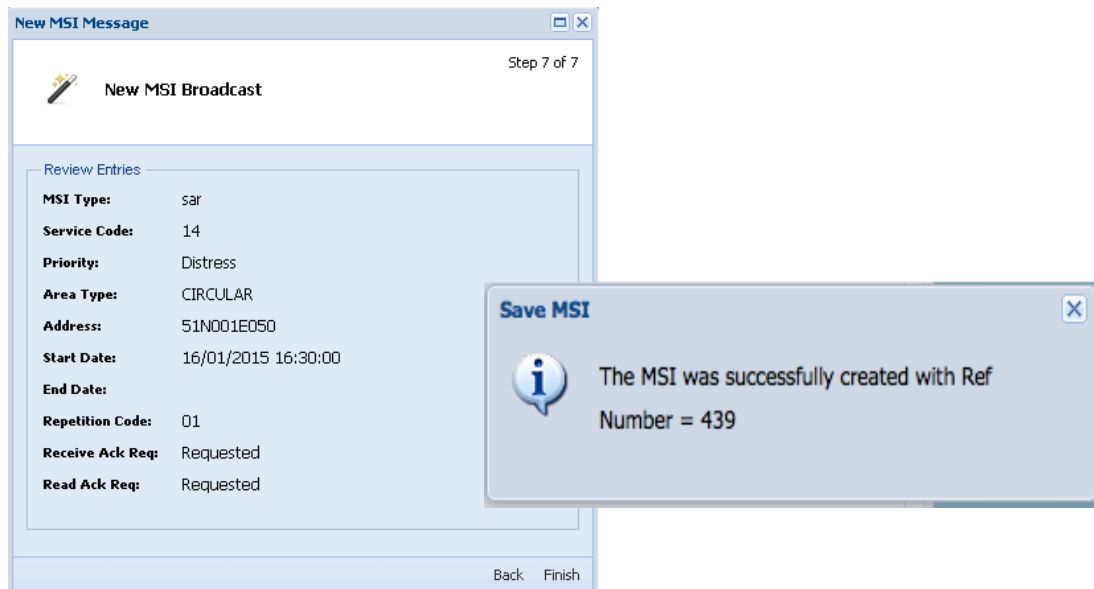


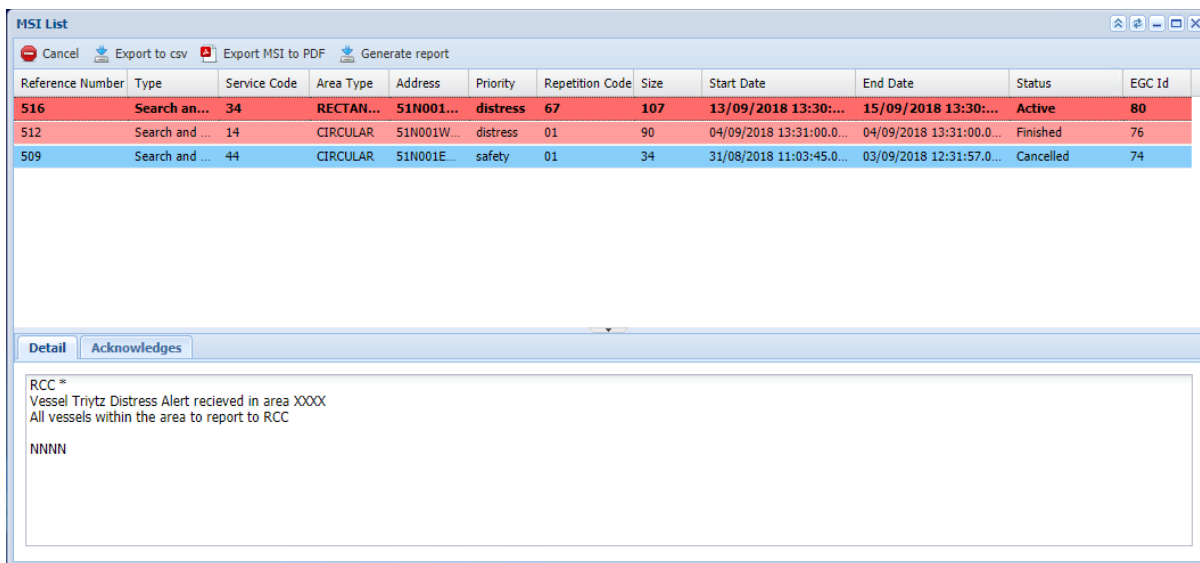
Figure 17 MSI Overview

4.3. View Broadcasts & Status

You can view all your MSI Broadcast, including the broadcast information and status, by going to "View MSIs". This information is available on SafetyNET II for 30 days after the last repetition and stored on the Inmarsat servers for 3 years.

To view the MSI broadcasts go to "**MSI Messages**" > "**View MSIs**"

This view will show the message: Reference Number, Type of message, Service Code, Area type, Area address, Priority, Repetition Code, Size, Start and End date, Status and EGC ID.



Reference Number	Type	Service Code	Area Type	Address	Priority	Repetition Code	Size	Start Date	End Date	Status	EGC Id
516	Search an...	34	RECTAN...	51N001...	distress	67	107	13/09/2018 13:30:...	15/09/2018 13:30:...	Active	80
512	Search and ...	14	CIRCULAR	51N001W...	distress	01	90	04/09/2018 13:31:00.0...	04/09/2018 13:31:00.0...	Finished	76
509	Search and ...	44	CIRCULAR	51N001E...	safety	01	34	31/08/2018 11:03:45.0...	03/09/2018 12:31:57.0...	Cancelled	74

Detail | Acknowledges

RCC *
Vessel Triytz Distress Alert recieved in area XXXX
All vessels within the area to report to RCC

NNNN

Figure 18 MSI Broadcast list

The Status of the broadcast will show as:


- > **Active:** the message has multiple repetitions that have already started to be broadcast but not reached the final broadcast date/time/cancellation.
- > **Scheduled:** the broadcast is scheduled for a date/time in the future.
- > **Finished:** the broadcast has completed all of its transmissions.
- > **Cancelled:** the operator has manually cancelled any further broadcasts of this message.

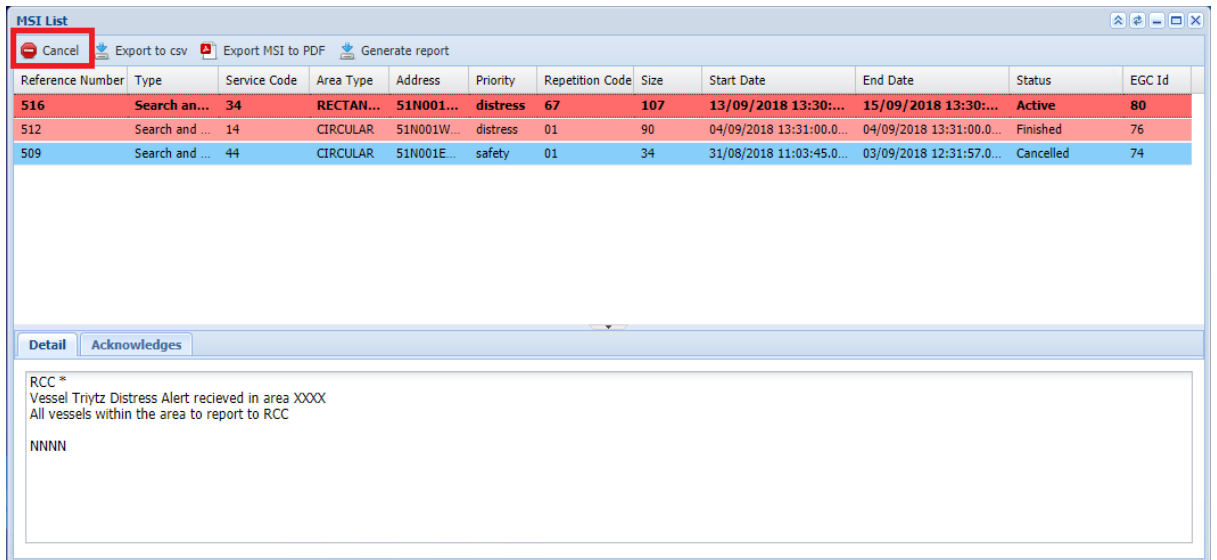
Clicking on a message will display the broadcast text in the lower details bar.

4.4. Cancel MSI Broadcast

If a MSI Broadcast is scheduled to be broadcast or has outstanding repetitions pending, you can cancel the broadcast at any time.

Select **"MSI Messages"** > **"View MSIs"**

Select the message you wish to cancel and click the  button.



The screenshot shows a window titled "MSI List" with a toolbar containing "Cancel", "Export to csv", "Export MSI to PDF", and "Generate report". Below the toolbar is a table with the following data:

Reference Number	Type	Service Code	Area Type	Address	Priority	Repetition Code	Size	Start Date	End Date	Status	EGC Id
516	Search an...	34	RECTAN...	51N001...	distress	67	107	13/09/2018 13:30:...	15/09/2018 13:30:...	Active	80
512	Search and ...	14	CIRCULAR	51N001W...	distress	01	90	04/09/2018 13:31:00.0...	04/09/2018 13:31:00.0...	Finished	76
509	Search and ...	44	CIRCULAR	51N001E...	safety	01	34	31/08/2018 11:03:45.0...	03/09/2018 12:31:57.0...	Cancelled	74

Below the table, there are two tabs: "Detail" and "Acknowledges". The "Detail" tab is active, showing the following text:

```
RCC *
Vessel Triytz Distress Alert recieved in area XXXX
All vessels within the area to report to RCC

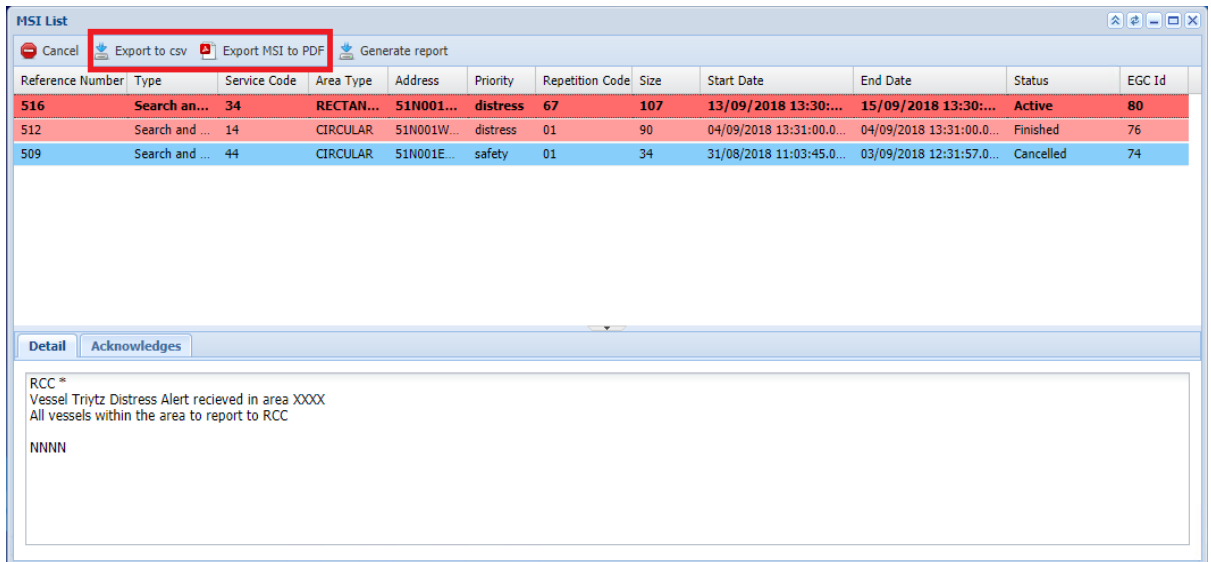
NNNN
```

Figure 19 Cancel MSI Broadcast

The "Status" will then change to "Cancelled" and the message will no longer be broadcast.

4.5. MSI Broadcast Data Export

SafetyNET II offers two data export functions:



The screenshot shows a window titled "MSI List" with a toolbar containing "Cancel", "Export to csv", "Export MSI to PDF", and "Generate report". Below the toolbar is a table with the following data:

Reference Number	Type	Service Code	Area Type	Address	Priority	Repetition Code	Size	Start Date	End Date	Status	EGC Id
516	Search an...	34	RECTAN...	51N001...	distress	67	107	13/09/2018 13:30:...	15/09/2018 13:30:...	Active	80
512	Search and ...	14	CIRCULAR	51N001W...	distress	01	90	04/09/2018 13:31:00.0...	04/09/2018 13:31:00.0...	Finished	76
509	Search and ...	44	CIRCULAR	51N001E...	safety	01	34	31/08/2018 11:03:45.0...	03/09/2018 12:31:57.0...	Cancelled	74

Below the table, there are tabs for "Detail" and "Acknowledges". The "Detail" tab is active, showing the following text:

```
RCC *
Vessel Triytz Distress Alert recieved in area XXXX
All vessels within the area to report to RCC

NNNN
```

Figure 20 MSI Broadcast export data

1. **Export to CSV:** this will export the information of ALL MSI Broadcasts created by your account that are listed in the MSI Broadcast list i.e. past 30-days in CSV format.
2. **Export MSI to PDF:** this will export the data relating to the selected message from the MSI Broadcast list in a PDF format.



MSI Message Detail

Reference Number: 516

Type:	sar	Start Date:	13/09/2018 13:30:15
Service Code:	34	End Date:	15/09/2018 13:30:15
Area Type:	RECTANGULAR	Status:	Active
Address:	51N001E40002	EGC Id:	80
Priority:	distress	MSIP:	jdrc
Repetition Code:	67	Station ID:	40
Size:	107		

Detail: RCC *
Vessel Triytz Distress Alert recieved in area XXXX
All vessels within the area to report to RCC

NNNN

[Acknowledge List](#)

Acknowledge Time	Type	Source
------------------	------	--------

Figure 21 MSI Broadcast export data

4.6. MSI Broadcast Report

SafetyNET II enables you to create a report of all your MSI Broadcast of a selectable period up to 30 days with the option to include repetitions.

From "MSI Messages" > "View MSIs" you can select "Generate Report" that will display "Additional Parameters" screen in which you can select "Start Date" and "End Date" and choose to include "Repetitions" if required.

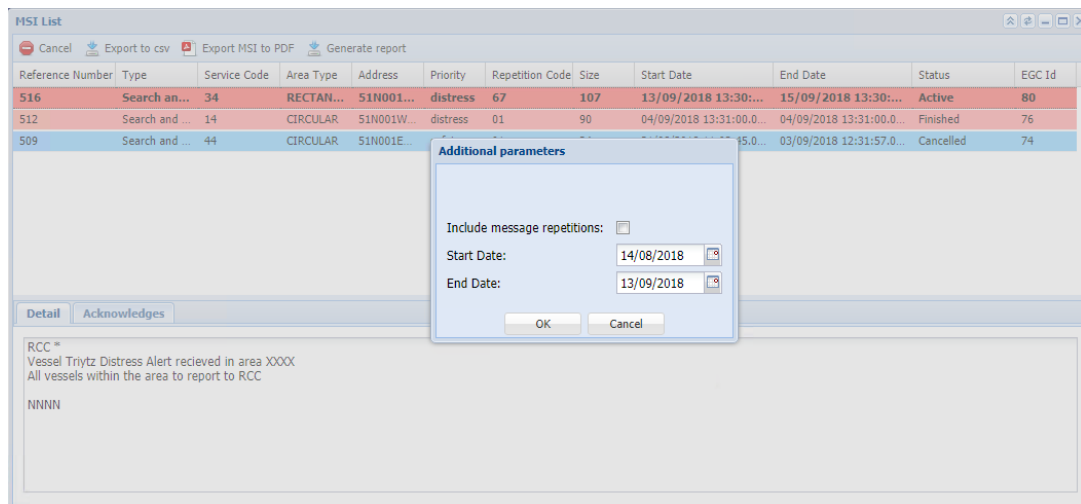


Figure 22 MSI Broadcast repetition creation

After selecting the parameters of the report, click on "OK" to run the report:

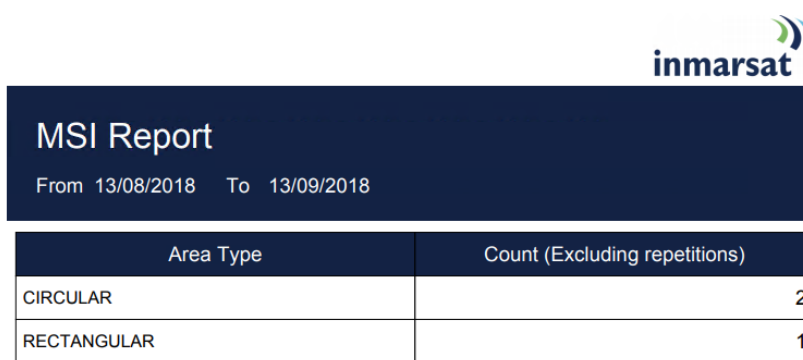


Figure 23 MSI Broadcast report example

5. Customer Support

Inmarsat provides 365x24x7 Customer Support through its regional Support Centres with teams of specialists to provide resolution of customer issues. Inmarsat Customer Support is the single point of contact for you for all issues pertaining to SafetyNET II.

Please contact Inmarsat Global Operations Centre:

Tel: +1 709-748-4226 Worldwide

Fax: +1 709-748-4320 Worldwide

Tel: +1 800-563-2255 Toll free in North America

Fax: +1 877-748-4320 Toll free in North America

E-mail: GlobalCustomerSupport@inmarsat.com

Alternatively, you can contact the Maritime Safety Team on maritime.safety@inmarsat.com