



# Inmarsat SafetyNET II Handbook

**First Edition** 

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## **First Edition**

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## 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 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 cancelation 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 <a href="https://msds.inmarsat.com/msds/">https://msds.inmarsat.com/msds/</a>

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

Login			
			Type User Login
Login:		T	
Password:		t	Type User Password
ОК	Forgot Password		

Figure 2 Login

**<u>Note</u>:** 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



Login		
	Forgot Password	
Locia		
Login.	Front I	
Password:	Email:	
	New Password	
OK Forgot Password		
	OK Cancel	
	Token:	
	Username:	
	New Password	51
		_1
	Confirm New Pwd:	
	OK Cased	
	OK Cancel	

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.



New KCI Message		N	ew HSI Hessage	E X	
			New MSI Broadcast		
			Please select the MSI type from the available list: MSI Type: Navigational		
	MSI List				
	Contra & Export to cav Export MSI to PDF & Ge Reference Number Type	Address Princity Renetition	Code Size Start D		
	514 Navigational 51 NAVMET	01 safety 01	4 05/09/		
	515 Navigational 51 NAVMET	01 safety 01	4 03/09/		
	513 Navigatio 51 NAVPIEI	01 safety 01	38 03/09		
	4			fack Next	
	Detail Acknowledges				
	test test				
	this is a test message				
					BOE
🟠 Start - 🎯 📢 🥶 New MSI Message 🕐 MSI List.					08:20 23/10/2018

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



Customize Desktop			×
Please select the customer logo and	d the (	desired favorite operat	ions:
Available Favorite operations		Selected	
View MSIs Customize Desktop Change Password Log Out	•	New MSI Message	
Wallpaper:			
Blue wallpaper			~
Customer Logo:			Browse
Save		Cancel	

## 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.

jdo	bb	
P	MSI Messages	Change Password
-dyne	Control Panel	
$\gg$	Change Password	Old Password:
2	Log Out	New Password:
👧 Start 🗸 🗟 📢		Confirm New Pwd:
		OK Cancel

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".

jdo	dd					
F	MSI Messages	•	<u>1</u>	New MSI Message		
ad par	Control Panel	۲		View MSIs		
$\gg$	Change Password					
	Log Out					
<u>೧</u> s	⚠ Start - 🎯 📢					

Figure 8 Create MSI (EGC) Broadcast

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

New MSI Message	
🥢 New MSI Broadcast	Step 1 of 7
Please select the MSI type from the available list:	
MSI Type: Navigational	
	Back Next

Figure 9 Select MSI type



Select "Service Code" for the type of broadcast required

New MSI Message		New MSI Message	
🦉 New MSI Broadcast	Step 2 of 7	New MSI Broadcast	Step 2 of 7
Please select the Service Code from the available lis	it:	Please select the Service Code from the available list:	
Service Code: 51 - NAVAREA warnings	~	Service Code: 13 - Coastal warnings	~
13 - Coastal warnings		13 - Coastal warnings	
51 - NAVAREA warnings		61 - METAREA warnings	
52 - Navigational warnings		62 - Meteorological warnings	
53 - International Ice patrol warning	ngs	63 - Storm and Tropical warnings	
54 - Piracy and Armed robbery wa	rnings	64 - Weather charts	
	Back Next		Back Next

Figure 10 Navigational Service Codes

Figure 11 Meterological Service Codes

**<u>NOTE</u>**: 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.

New MSI Me	ssage	
<b>%</b>	New MSI Broadcast	Step 3 of 7
Please sel	ect the Priority from the available list:	
Priority:	Safety 👻	
	Safety	
	Urgency	
		Deale Mark

Figure 12 Select Priority



New MSI Message	2		
🎢 New	MSI Broadcast		Step 4 of 7
Please select t	he area type and	l enter the correspor	nding parameters:
Area Type:	Oircular	🔘 Rectangular	Other
Center:	51 01		
Radius (NM):	50		×
			Back Nevt

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<sup>o</sup>|d|:) (minutes\'|:|´) (seconds"|´´) (N/S)
- > Longitude (degrees<sup>o</sup>|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.

New MSI Message			
🖉 New MSI	Broadcast	Step	)5 of 7
Please enter the pe Code from the avai	eriod of validity of this MSI and select the Rep lable list:	etiti	on
Start Date (UTC):	16/01/2015 16:30:00		
End Date (UTC):			
Repetition Code:	01 - Transmit once	~	
	01 - Transmit once	<b>A</b>	
	11 - Two transmissions, 6min interval		
	61 - Two transmissions, 1 hour interval		
	62 - Two transmissions, 2 hour interval		
	63 - Two transmissions, 3 hour interval		
	64 - Two transmissions, 4 hour interval		
	66 - Two transmissions, 12 hour interval		Next
	67 - Two transmissions, 24 hour interval	-	

Figure 15 Set Repetition code

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

**<u>Note</u>:** 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.



New M5I Message		
🌮 New MSI Broadcast	Step	6 of 7
MSI Contents: () Text () File Text:		
Enter message information to be Broadcast in this space.		
	Back	Next

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.

New MSI Message				
🖉 New MS	SI Broadcast	Step 7 of 7		
Review Entries MSI Type: Service Code: Priority:	sar 14 Distress			
Area Type: Address: Start Date: End Date: Repetition Code: Receive Ack Req: Read Ack Req:	CIRCULAR 51N001E050 16/01/2015 16:30:00 01 Requested Requested	Save MSI	The MSI was successfully created with Ref Number = 439	×
		Back Finish		

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.

MSI List											* * >
🖨 Cancel	😑 Cancel  🛓 Export to csv 🛯 Export MSI to PDF 📩 Generate report										
Reference N	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 Tr All vessel NNNN	iytz Distress Alert reci is within the area to re	eved in area XX port to RCC	xx								

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 Gancel button.

MSI List									* = =		
📮 Cancel 👱 Ex	port to csv 🛛 🎴	Export MSI to P	DF 📩 Gene	rate report							
Reference Number	Туре	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
09	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 Ackno	wledges										
RCC * Vessel Triytz Dis All vessels within NNNN	tress Alert reci n the area to re	eved in area XX port to RCC	xx								

#### 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:

MSI List										8	* = = ×
Cance	l 🛓 Export to csv	Export MSI to	PDF 📩 Gene	erate report							
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										
Vessel 1	Triytz Distress Alert re	cieved in area X	xxx								
All vess	els 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.



			i	)) nmarsat
MSI Me	essage Detail			
	0			
Reference N	umber: 516			
Туре:	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:	jdrcc	
Repetition Code:	67	Station ID:	40	
Size:	107			
Detail:	RCC * Vessel Triytz Distress Al All vessels within the are	ert recieved in area a to report to RCC	XXXX	
	NNNN			
Acknowledge	List			
	<b>-</b>	Ō		

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.

MSI List												* <b>*</b> - <b>-</b> ×
😑 Cancel  🛓 Es	oport to csv 🛛 🚇	Export MSI to P	DF 📥 Gene	rate report								
Reference Number	Туре	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 13:3	30:	15/09/2018 13:30:	Active	80
512	Search and	14	CIRCULAR	51N001W	distress	01	90	04/09/2018 13:31:0	0.00	04/09/2018 13:31:00.0	Finished	76
509	Search and	44	CIRCULAR	51N001E	Addition	al parameters			15.0	03/09/2018 12:31:57.0	Cancelled	74
Detail Ackno RCC * Vessel Triytz Di All vessels withi NNNN	stress Alert reci	eved in area XX port to RCC	200		Include Start D	e message repeti ate: ite: OK	tions: 1: 1: Can	4/08/2018 3 3/09/2018 3 cel				

Figure 22 MSI Broadcast repetition creation



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

		inmarsat
MSI Report From 13/08/2018 To	13/09/2018	
otal MSI Messages Broad	lcasted (excluding repetitions):	:
Туре	Area Type	Priority
sar	CIRCULAR   RECTANGULAR	• distress • safety
<pre>%100 %75 %50 %25 %0 </pre>	%100 %75 %50 %25 %0 CIRCULAR RECTANGULAR	%100 %75 %50 %25 %0 distress <b>a</b> safety
MSI Type sar	e Count	(Excluding repetitions)
Priority	Count	(Excluding repetitions)
distress		
safety		
September 13, 2018		Page 1 of 2
MSI Report From 13/08/2018 To	13/09/2018	inmarsat
Area Type	e Count	(Excluding repetitions)
CIRCULAR		
RECTANGULAR		

RECTANGULAR

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