



C200M/C700 GMDSS Operation Guide

Serial number of the product

This serial number will be required for all troubleshooting or service inquiries.

Intellian

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Disclaimer

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Document Information (HW/SW Version)

This manual applies to the following HW and SW versions. Please note that the contents may be updated without notice and could differ from the actual product.

HW Version

SDT	V0.6	Handset	V0.4
Alarm Box	V0.6	SSAS Box Alert/Test	V0.5
Junction Box	V0.4	Alarm Unit*	V5.0

* The Alarm Unit's version is the main control version because the alarm unit has four types of PCBAs inside.

SW Version

SDT	1.0.7	SSAS Box Alert/Test	1.1.1
Alarm Box #1, #2, #3	1.1.1	Alarm Unit	1.0.2
BDU (C200M GMDSS)	2.0.1	ADU (C200M GMDSS)	1.0.5
BDU (C700 GMDSS)	3.0.1	ADU (700 GMDSS)	1.0.2

Precautions

Warnings, Cautions, and Notes

WARNING, CAUTION, and NOTE statements are used throughout this manual to emphasize important and critical information. You must read these statements to help ensure safety and to prevent product damage. The statements are defined below.

	WARNING WARNING indicates a potentially hazardous situation that if not avoided, could result in death or serious injury.
	CAUTION CAUTION indicates a potentially hazardous situation that if not avoided, could result in minor or moderate injury or damage to equipment. It may also be used to alert users about unsafe practices.
	NOTE A NOTE statement is used to notify people of installation, operation, programming, or maintenance information that is important, but not hazard-related.

General Precautions

Before you use the antenna, make sure that you have read and understood all safety requirements.

- * **Shock Hazard:** To minimize shock hazard and to protect against lightning, the equipment cabinets must be connected to the ship's metallic hull. Make sure the system is correctly grounded and power is off when installing, configuring, and connecting components.
- * **Do not operate in an explosive atmosphere:** Do not operate the equipment in explosive environments or in the presence of flammable gases. Operating this equipment in such an environment causes a definite safety hazard.
- * **Keep away from living circuits:** Operating personnel must at all times observe all safety regulations. Do not replace components or make adjustment inside the equipment with any power supply turned on. Under certain conditions, dangerous potentials may exist in the power supplies even with the power cable removed. To avoid injuries, always remove the power and discharge a circuit before touching it.

DISTRESS ALERT

Transmitting the Distress Alert

1. Open the cover of the **DISTRESS** key and press and hold the key for 3 seconds.



NOTE

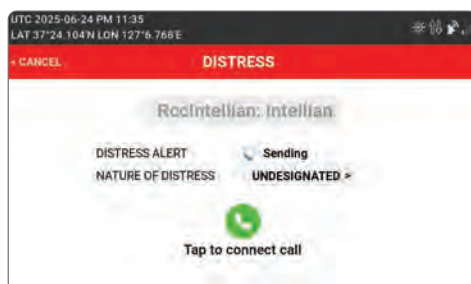
The DISTRESS key is covered to prevent accidental operation.



An intermittent audible alarm will sound, and the key will blink in red. A countdown screen (3s, 2s, 1s) will appear.

The Distress Alert will be sent when the countdown reaches 0 seconds, and both light and sound becomes steady.

When the **DISTRESS** key is released to sound will stop.

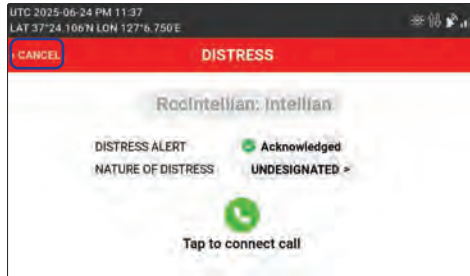


When the Distress Alert transmission starts, the screen is updated to show:

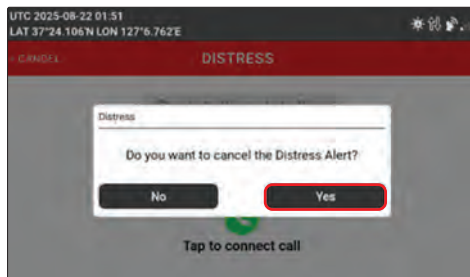
- The RCC that the Distress Alert has been sent to.
- Displays the current status of the Distress Alert (options include Sending, Sent, Delivered, Canceling, Acknowledged)
- The user can change the Nature of distress by selecting a different option from the drop down list (see section 4.1.2). The Call button can be used to initiate a Distress Voice call with the RCC. If Auto Dial is set, a Distress Voice call will automatically be initiated when the Distress Alert status changes to Delivered.

Canceling Distress Alert

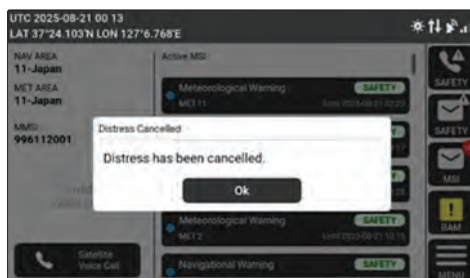
You can cancel the Distress Alert while it is being sent or while waiting for its acknowledgment as follows:



1. Select the **CANCEL** option button. A pop-up window will be displayed on the screen.



2. Press the **Yes** button to proceed with the cancellation of the Distress Alert.



3. A pop-up confirms that the Distress Alert has been cancelled.

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Chapter 1. Certifications

This device complies with Part 15 of the FCC Rules, Industry Canada licence-exempt RSS standard(s), as well as MED, MER, and other national regulatory requirements.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Changes or modifications made to this equipment not expressly approved by Intellian Technologies, Inc. may void the FCC authorization to operate this equipment.

Radiofrequency radiation exposure Information:

This equipment complies with MED and FCC, IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 1.5 m between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

Chapter 2. Introduction

2.1 Introduction of C200M/C700 GMDSS System

Intellian's C200M/C700 GMDSS System is comprised of three core products that can be augmented with a range of accessories. The three core products are the ADU (above deck unit) and BDU (below deck unit) that comprise the C200M/C700 Standard System and the Safety Display Terminal (SDT).

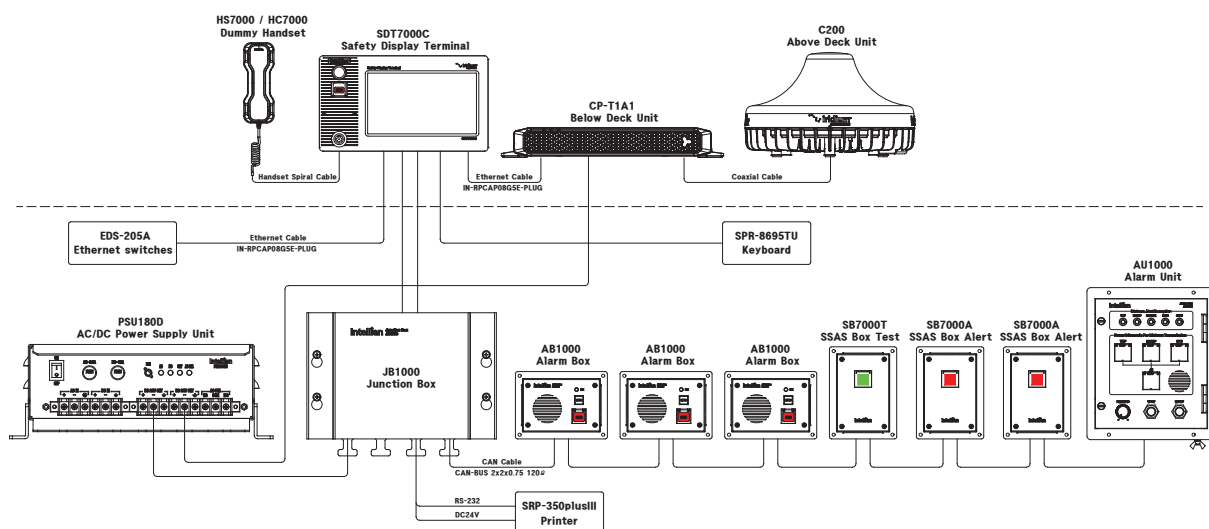
The C200M/C700 Standard System is an L-band terminal designed by Intellian to connect to Iridium's constellation of 66 active LEO satellites that provide truly global coverage. The Iridium Certus® 200/700 service provides three high-quality voice lines with concurrent IP data. The maximum data speeds are 176 kbps/704 kbps for both downlink and uplink. The RF architecture includes dedicated interference blocking elements, making the C200M/C700 GMDSS terminal inherently resilient against interference from terrestrial cellular equipment and other sources of radio interference off or on board the vessel.

The Safety Display Terminal (SDT) includes a 7" touchscreen and a dedicated handset that ship staff can use to access the GMDSS services.

Intellian offer a full range of MED certified accessories to provide additional capabilities, including:

- AC/DC Power Supply Unit: Supports inputs from the vessel's AC distribution systems (110V/220V) or from the battery backup for the bridge communication equipment.
- GMDSS Alarm Box: Using these devices, a GMDSS DISTRESS Alert can be sent using the C200M/C700 GMDSS System from locations other than the GMDSS console. Typical locations include the conning position, Ship's Office & Captain's cabin.
- GMDSS Alarm Unit: Using this device, GMDSS DISTRESS Alerts can be sent using all of the available GMDSS communications devices (VHF, MF/HF & C200M/C700 GMDSS) from a location other than the GMDSS console.
- SSAS Box Alert: Using this device an SSAS Alert can be discreetly sent to the Company Security Officer at the vessel operator's shore offices.
- SSAS Box Test: This device is used to test the SSAS communication system.

The C200M/C700 GMDSS System can also be used for non-emergency communications. IP phones can be connected to the BDU, and devices, such as laptops can either be connected to the ethernet ports at the back of the BDU or connected using the WiFi router. The Iridium network prioritizes emergency communication to ensure that GMDSS services are always available. Consequently a single C200M/C700 GMDSS System can be used to provide both GMDSS services and also act as a companion terminal or provide OOBM, for other connected devices.



2.2 Iridium Satellite Network

The Iridium satellite network is comprised of 66 low-earth orbiting (LEO), cross-linked satellites, providing voice and data coverage over Earth's entire surface.

At only 476 mile (780 km) from the earth, the proximity of Iridium's LEO network means pole-to-pole coverage, a shorter transmission path, stronger signals, lower latency, and shorter registration time than with GEO satellites. The network is considered a meshed constellation of interconnected, cross-linked satellites so that each satellite "talks" with the other nearby satellites in front, behind, and adjacent orbits.

In space, each Iridium satellite is linked to up to four others creating a dynamic network that routes traffic among satellites to ensure global coverage, even when traditional local systems are unavailable.



The Iridium GMDSS Service provides essential maritime safety communications using the Iridium satellite network. It is the only GMDSS solution offering global satellite coverage, including the polar regions. This service integrates multiple functions, including GMDSS, the Ship Security Alert System (SSAS), Long Range Identification and Tracking (LRIT), auxiliary data services, and voice communication, within a single terminal for efficient operation.

2.3 Iridium Certus GMDSS SIM Card

The C200M/C700 GMDSS system requires a valid Iridium Certus GMDSS SIM Card to utilize GMDSS communication services via the Iridium satellite network. This SIM Card can be obtained from authorized Iridium GMDSS Service Providers. Link the Iridium website page that shows a list of their maritime Certus Service Providers: <https://www.iridium.com/services/certus-gmdss>.

During service enrollment, registration documents containing the ship's main information (Ship Name, IMO No., MMSI No., Vessel Call Sign, etc.) will be submitted to the service provider. Upon successful registration, a SIM card specifically configured for the registered ship will be issued. This SIM card is uniquely identified by its physically-assisted ICCID (Integrated Circuit Card Identifier) and MSISDN (Mobile Station International Subscriber Directory Number), which serves as the intrinsic Iridium satellite number used within the Iridium GMDSS service. The registered ship's main information will be verified during the Installation Wizard process for the C200M/C700 GMDSS.

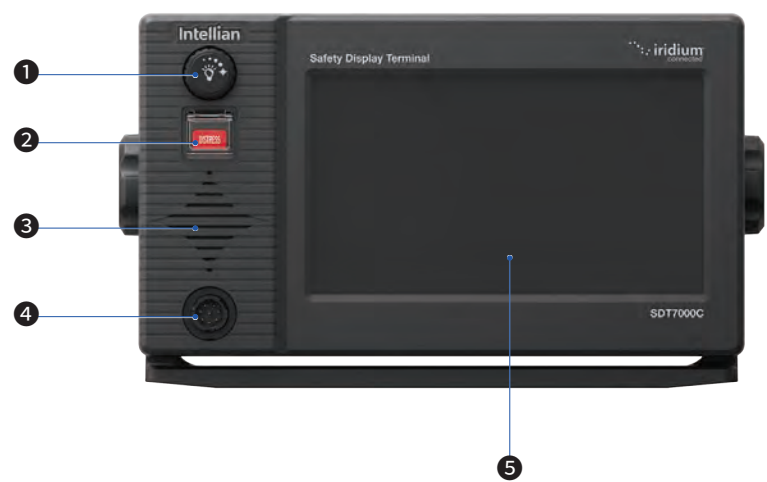
If any information contains errors, the user must contact the service provider to modify it before activating or installing the GMDSS system.

The SIM card type is Mini-SIM (dimensions: 25mm x 15mm). It will be provided attached to a plastic card. Before inserting the SIM card into the equipment, detach the Mini-SIM portion from the plastic card.



Chapter 3. Operating SDT

3.1 Controls



No.	Key	Function
①	Dimmer knob	Control the LCD screen brightness by the dimmer knob.
②	DISTRESS key	Press and hold the button for three seconds to transmit the Distress Alert. Note: DISTRESS button is covered by transparent cover to prevent user from accidental operation.
③	Front speaker	Front speaker is located inside the housing.
④	Handset port	Connect the provided handset (HS7000). (It can also be connected to the rear 8P port.)
⑤	7" LCD screen	Displays the user interface including menu, function, message, etc.



NOTE
Intellian declares that the luminance persistence (response time) of the display equipment is 25ms.

3.2 Handset

The handset controls voice communications.

- Up and Down button: To adjust the handset volume.



3.3 Turning On/Off Power

Turning On:

When the system is powered on for the first time, connect the SDT and BDU to the power supply (PSU180D). Then switch on the power supply. The equipment and accessories will then power on, except for the BDU which has to be turned on using the power button on the front of the BDU. The bootsplash (logo) screen will appear, followed by the home screen.



Turning Off:

Switch off the power supply to power off the equipment and accessories.

3.4 Home screen

When the SDT is powered on and starts booting, it will complete the startup process and display the home screen. The screen displays the current position information, the vessel's MMSI, and active MSI messages.

3.4.1 Status Bar

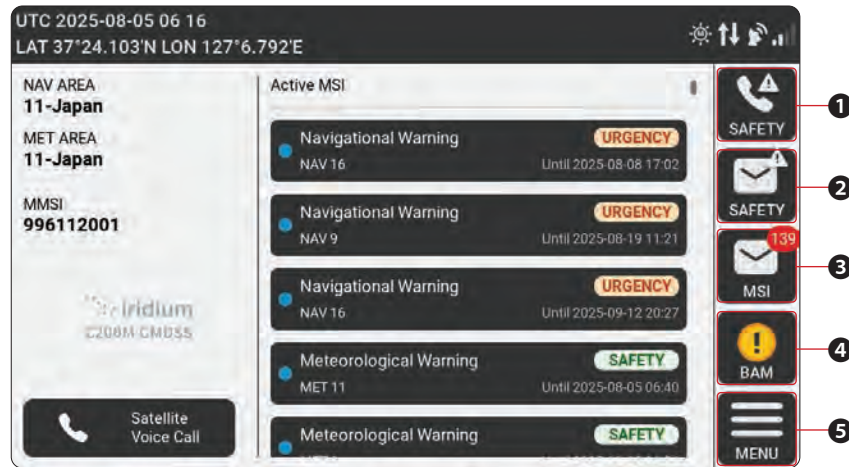
Shown at the top of the screen. Displays the current UTC time, vessel's location, and icons indicating the status of the system.



No.	Description
①	Displays current time. Terminal always displays time as UTC.
②	Displays the Latitude and Longitude of the vessel's current location. • Auto: Indicates vessel's location based on the GNSS receiver in the ADU. • Manual: Indicates manually set position information. (see section 11.1.2)
③	Displays current status. • : Indicates signal sensitivity. • : Indicates satellite connection. • / : Indicates enable satellite data service (using / not using data service). • : Indicates MSI message update. • / : Indicates Auto / Manual display dimming mode. • / : Indicates Handset off-hook / on-call status. • : Indicates disconnected BDU. (Check the connection with the BDU. Refer to the installation guide for cable details.)

3.4.2 Menu Bar

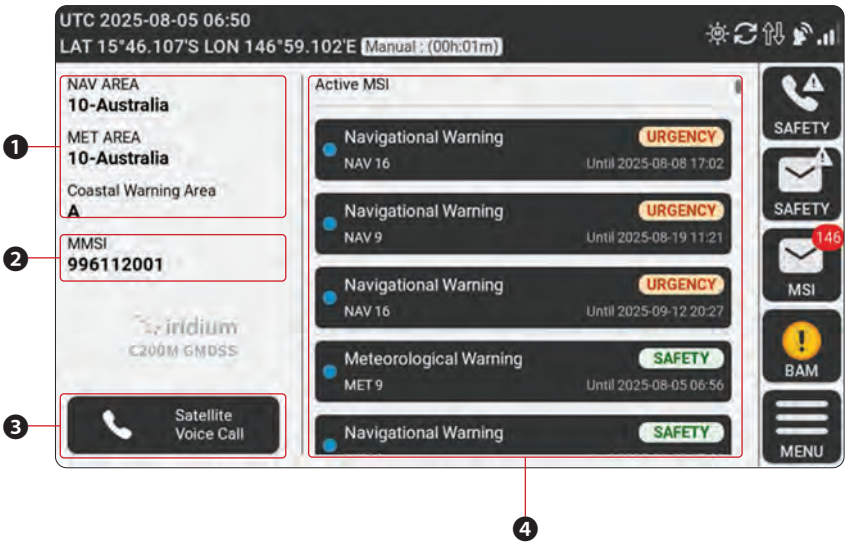
The bar of buttons down the right hand side of the screen allows the user to select pages that are used to manage specific functions. A red number in a circle at the top right corner of a button represents the number of active messages that have not yet been read.



No.	Description
①	 : Safety call page (section 4.4)
②	 : Safety message page (section 4.3)
③	 : MSI message page (section 4.2)
④	 : BAM alert page (section 7)
⑤	 : SDT other functions Menu page

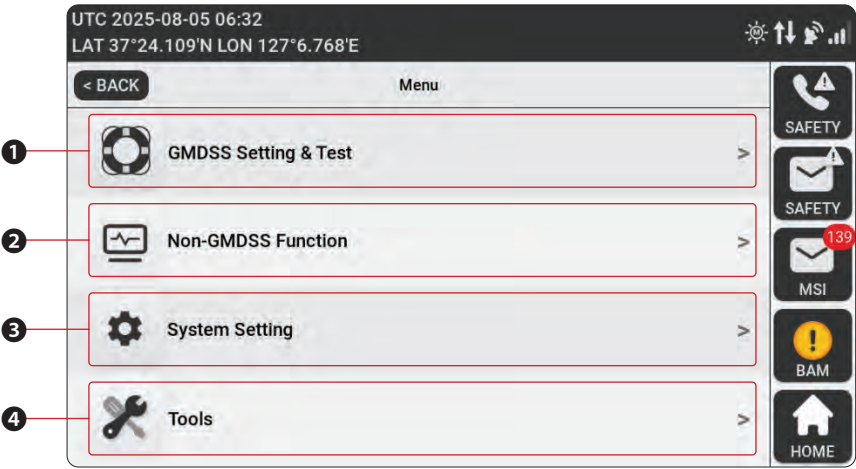
3.4.3 Content Area

Changes based on user section. Content for the Home Screen shown below.



No.	Description
①	Displays sea area based on vessel's location. • NAVAREA / METAREA MSI are received automatically for the NAVAREA and METAREA that the vessel is located in. The user is able to select to receive MSI for other NAVAREAs and METAREAs. (see section 5.2.2) • CWA (Coastal Warning Area) The Coastal Warning Area (CWA) is defined in geographical regions where the existing NAV/METAREAs are insufficiently granular. Not all NAVAREAs and METAREAs have Coastal Warning Areas. Coastal Warning Area is not shown for NAVAREAs and METAREAs that don't have Coastal Warning Areas.
②	Displays the vessel's MMSI.
③	Button for making normal (non-GMDSS) satellite voice calls.
④	Displays active MSI messages.

3.5 SDT Menu



No.	Description
①	: GMDSS Settings & Test function (section 5)
②	: Non-GMDSS Function settings (section 6)
③	: System Settings (section 11)
④	: Tools (section 12)

3.6 Display

Adjusting the brightness of the display and LEDs

Rotating the **DIMMER** knob on the left side of the front panel to adjust the brightness of the display and LEDs (1-20 levels). When the Dimmer knob is turned the brightness level pop-up window will be displayed showing the current dimming level. It is also possible to switch to Auto Dimming using the Dimming knob. Alternatively, go to **Menu** → **System Setting** → **Display** to adjust to the desired brightness level. (see section 11.1.2)

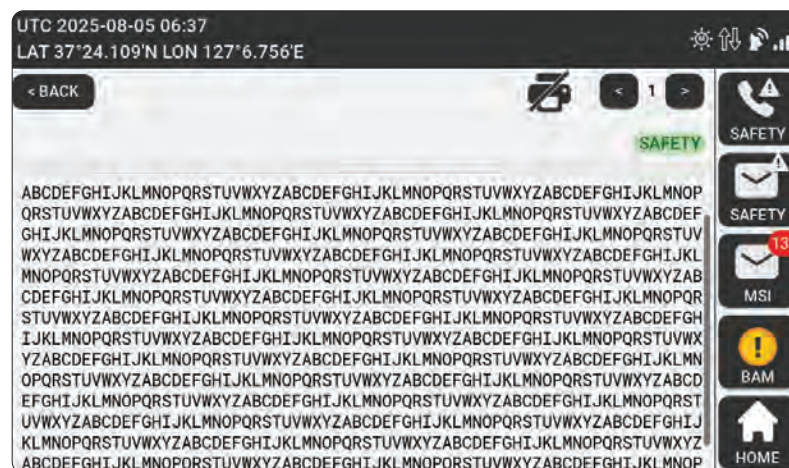


Auto Mode

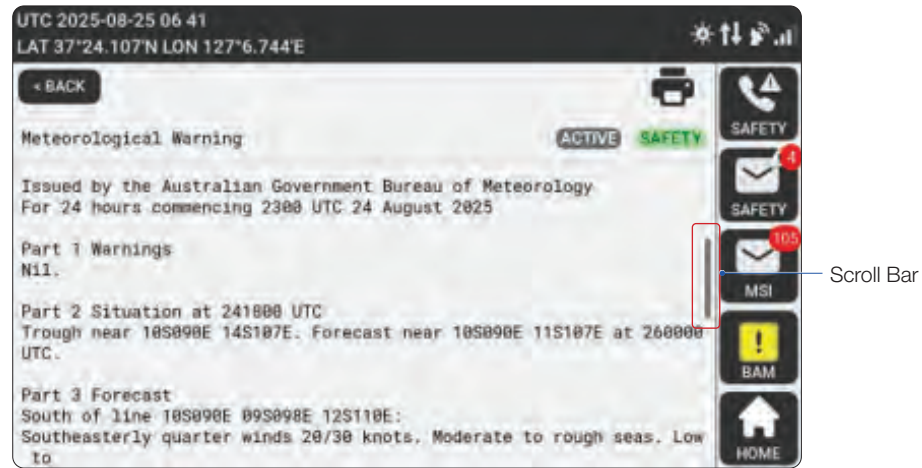
If the user turns the Dimming knob to decrease the dimming level from level 1, Auto Dimming mode is enabled. Alternatively, go to **Menu** → **System Setting** → **Display** to enable Auto brightness. When Auto Dimming mode is enabled, the brightness of the display and LEDs is automatically adjusted according to ambient light levels. Turning the Dimmer knob when in Auto Dimming mode switches back to Manual Dimming mode.

Display Features

The display of the C200M/C700 GMDSS can show 42 characters per line across 17 lines, with a character height of 3 mm. (The maximum number of lines available when reading a message is 17.)



- The display resolution is 1024 x 600 Pixels (Pixel Arrangement: RGB vertical Stripe). The response time of 30ms ensures that the display is flicker free.
- The recommended viewing distance is 60 cm, ensuring readability under all lighting conditions.
- The brightness level is adjustable in 20 steps (1–20 levels).



- A scroll bar appears on the right side of screens that require scrolling. Users can swipe up or down to view more content, and the scroll bar moves according to the user's viewing position.

Chapter 4. GMDSS Services

4.1 Distress Alert & Distress Voice Call

4.1.1 Activation of Distress

1. Open the cover of the **DISTRESS** key and press and hold the key for 3 seconds.



NOTE

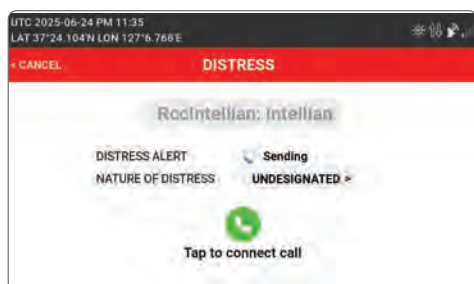
The DISTRESS key is covered to prevent accidental operation.



During the 3-second countdown, the button will flash, and an intermittent audible alarm will sound from the unit.

If the button is released within 3 seconds, the Distress Alert will not be sent and the alarm will stop.

After 3 seconds, the Distress Alert transmission starts. The button stops flashing, and the audible alarm will stop.



When the Distress Alert transmission starts, the screen is updated to show:

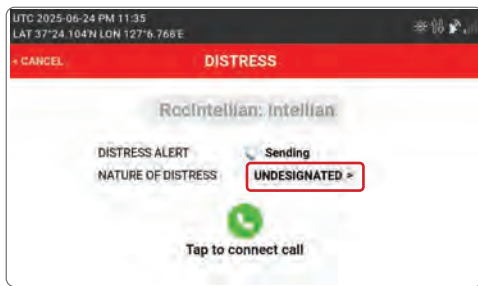
- The RCC that the Distress Alert has been sent to.
- The current status of the Distress Alert (Options include Sending, Sent, Delivered, Canceling, Acknowledged).
- The user can change the Nature of distress by selecting a different option from the drop down list. (see section 4.1.2)
- The Call button can be used to initiate a Distress Voice call with the RCC. If Auto Dial is set, a Distress Voice call will automatically be initiated when the Distress Alert status changes to Delivered.



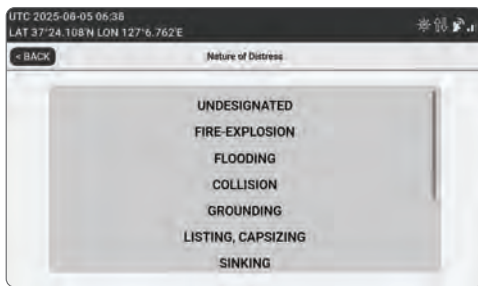
NOTE

The RCC can be changed during a Distress Alert. This function can be used only when Auto Dial is disabled and a Distress call is not in progress. See Section 5.3.2 for setup instructions.

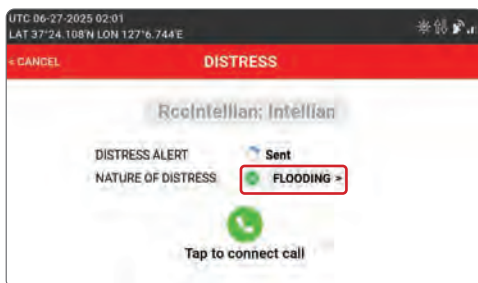
4.1.2 Select Nature of Distress



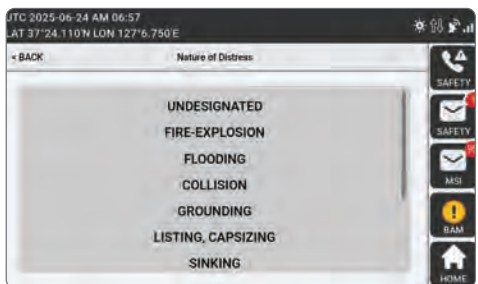
1. Press the 'Nature of Distress' drop down to display the currently configurable distress types.



2. Select the applicable Nature of Distress from the list displayed.



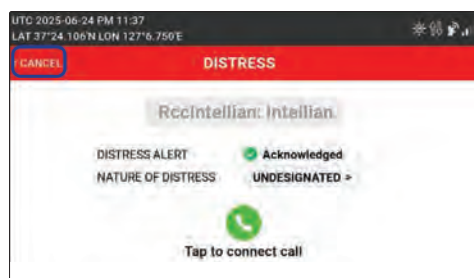
3. The green check mark indicates that the change has been made and the updated value will be communicated to the RCC.



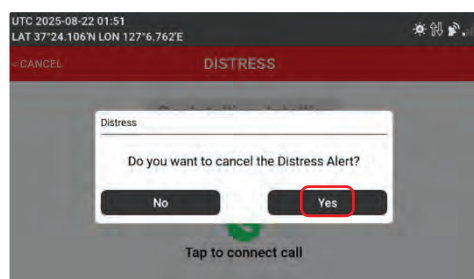
4. There is also an option to select the default Nature of Distress, go to **Menu → GMDSS Setting → Distress → Default Nature of Distress**. (see section 5.3.1)

4.1.3 Distress Cancel

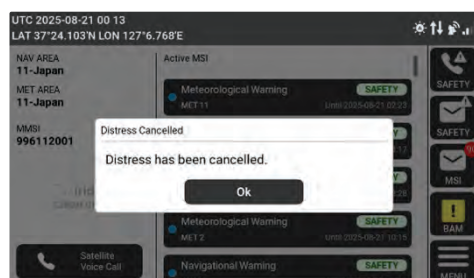
You can cancel the Distress Alert while it is being sent or while waiting for its acknowledgment as follows:



1. Select the **CANCEL** option button. A pop-up window will be displayed on the screen.



2. Pressing **Yes** will transmit a Distress Alert cancellation message to the RCC to formally retract the Distress Alert.



3. A pop up is displayed to confirm that the Distress Alert has been cancelled.



NOTE

It is not required to set the Nature of Distress and the RCC will respond to all of the options including 'Undesignated'.

4.1.4 Initiate Distress Alert from a remote GMDSS Alarm Button or GMDSS Alarm Unit

A distress alert can also be initiated from a connected external GMDSS Alarm Box or Alarm Unit. The following procedure applies specifically to activating the alert from these external devices.



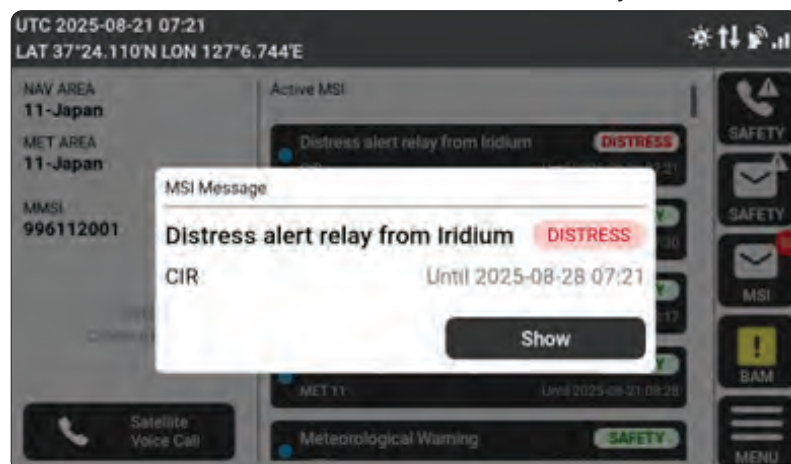
Procedure for Transmitting a Distress Alert Using a Distress Alarm Box or Distress Alarm Unit

1. Open the cover of the **DISTRESS** button.
2. Press and hold the button for 3 seconds.
3. During the 3-second countdown, the indicator light in the button will flash, and an intermittent audible alarm will sound from the unit.
4. After 3 seconds, the distress alert is transmitted. The button will become steady (no longer flashing) and the alarm will stop.

4.1.5 Distress Alert Relay (DAR)

A Distress Alert Relay message is sent by an RCC (Rescue Coordination Center) to a predefined area (for example, a circular area with a radius of 50 NM) when a nearby vessel has sent a Distress Alert message and assistance is required. The Distress Alert Relay message will contain information from the vessel in distress.

When the DAR is received, an audio alarm sounds on the SDT, and a pop-up window displaying “MSI RECEIVED” with a priority of Distress will appear on the screen. The alarm will continue until the MSI is opened. In addition, a BAM alert labeled ‘Distress Rx’ will simultaneously be sent to the CAM (if connected).



The Distress Alert Relay message contains key attribute information at the beginning. Use the touch screen and scroll up/down to read the full message content.



The BAM alarm for a Distress RX can be cleared by pressing the **ACK** button upon receiving the BAM alarm.



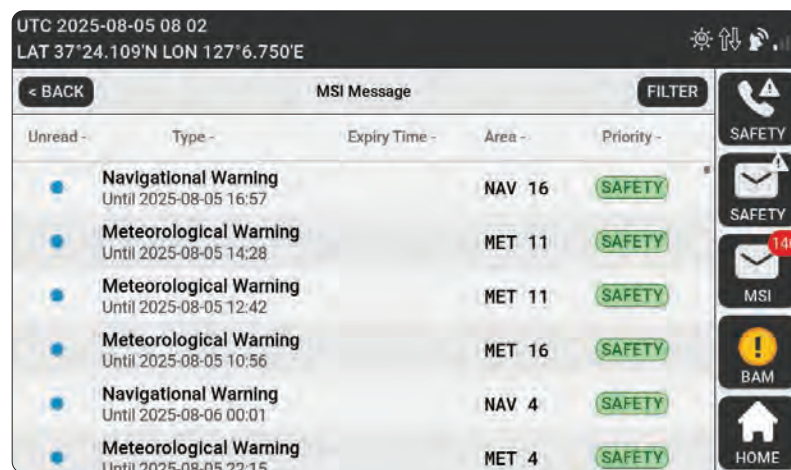
4.2 Maritime Safety Information (MSI)

Maritime Safety Information (MSI) messages contain navigational and meteorological warnings that are issued by Port States. MSI are typically associated with a specific NAVAREA or METAREA. It is mandatory for SOLAS ships to be able to receive MSI. MSI are broadcast over satellite, VHF radio and MF radio. The MSI may contain navigation-related information, navigation warnings, weather forecasts, search and rescue updates, marine chart updates, piracy activity reports, naval warship operation areas, and other region-specific information.



NOTE

The SDT can display MSI messages of up to 15000 bytes in size and store at least 200 MSI messages.



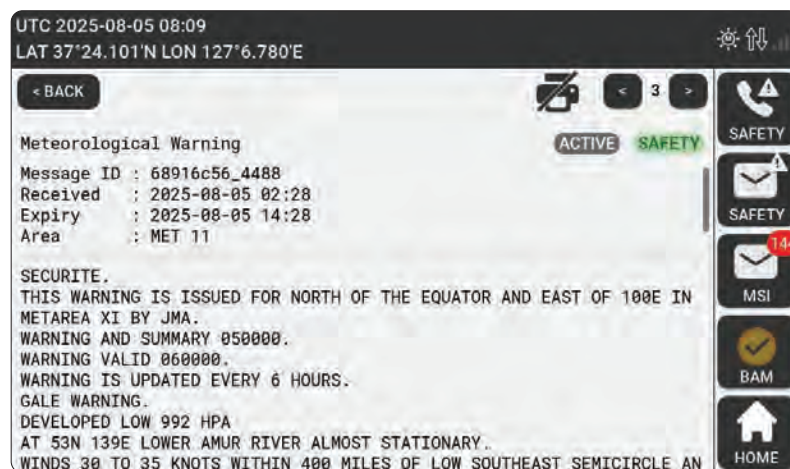
The different types of MSI messages, including their class and the Authority that issues them, are shown in the table below.

Message Type	Class	Authority	Geography	Priority
Navigational warning or bulletin	NAV	MSI Provider	Rectangular Circular NAVAREA COASTAL	Safety Urgency
Meteorological warning or forecast	MET	MSI Provider	Rectangular Circular METAREA COASTAL	Safety Urgency
Urgency & Safety Traffic	NAV SAR	MSI Provider RCC	NAVAREA	Safety Urgency
Shore to Ship Distress Alert Relay	SAR	RCC	Rectangular Circular	Distress
SAR Coordination Traffic	SAR	RCC	Rectangular Circular	Safety Urgency Distress
Piracy Situation Report	NAV (Piracy)	MSI Provider	Rectangular Circular NAVAREA COASTAL	Safety
Piracy Attack Warning	NAV (Piracy)	MSI Provider	Rectangular Circular NAVAREA COASTAL	Urgency

MSI messages with a Distress priority are issued immediately, MSI messages with lower priorities are issued, for each NAVAREA and METAREA, in accordance with an established schedule (typically twice per day for each of the different transmission paths – satellite, VHF & MF).

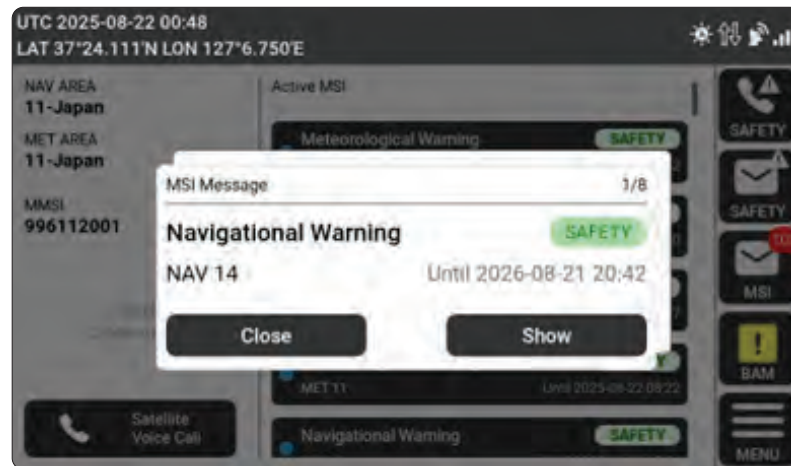
The C200M/C700 GMDSS system always receives MSI messages for the NAVAREA/METAREA and Coastal Warning Area that the vessel is currently located in. If a nearby NAV/MET area is within 300 NM of the GNSS position (within 100 NM for CWA), additional MSI messages may be received. MSI for other NAVAREAs and METAREAs can also be received. See section 5.2.2 for guidance on how to do this.

The image below shows an example of a MSI message displayed on the SDT.



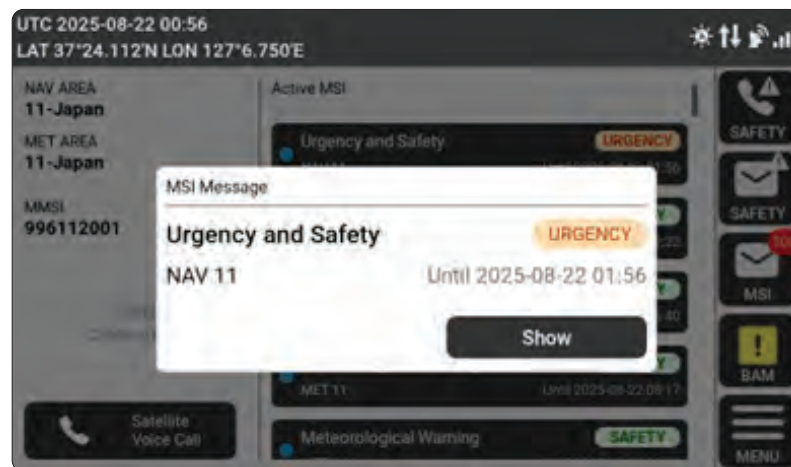
4.2.1 View Received MSI Messages

When an MSI message with Safety priority is received, a pop-up window will appear on the screen accompanied by an audio alarm. Press the **Show** button to display the contents of the MSI message or press the **Close** button to dismiss the pop-up.



When a MSI message with Distress/Urgency priority is received, the audio alarm will continue until the message is opened.

Click the **Show** button to open the message.



To view all lists for received MSI messages, press the MSI button on the menu bar on the right side of the screen. You can sort the list by pressing a column. The arrow next to the column name indicates the current sort order. This screenshot shows the MSI List sorted in descending order of priority.

Unread	Type	Expiry Time	Area	Priority
	Urgency and Safety Until 2025-08-22 01:56		NAV 11	URGENCY
	Navigational Warning Until 2026-08-21 20:42		NAV 14	SAFETY
☒	Meteorological Warning Until 2025-08-22 08:22		MET 11	SAFETY
☒	Meteorological Warning Until 2025-08-22 08:17		MET 11	SAFETY
☒	Meteorological Warning Until 2025-08-22 06:40		MET 11	SAFETY
☒	Meteorological Warning Until 2025-08-22 02:22		MET 11	SAFETY



NOTE

The types of pop-ups in SDT are MSI Message Receipt (Distress, Urgency, Safety priority), Safety Message Receipt (Distress, Urgency, Safety priority), and BAM Alert (Warning, Caution priority). The pop-ups are sorted in the following order:

1. Distress priority message (MSI or Safety message)
2. Urgency priority message (MSI or Safety message)
3. BAM Warning priority & Safety priority message (MSI or Safety message)
4. BAM Caution priority ("Lost connection" is the only one that triggers a pop-up).

And in the same priority, latest is first.

Print MSI Message

If a printer is connected, the user can print the received MSI message. see section 12.2 of the Installation Guide for printing device installation instructions. If the printer is not installed correctly or is not connected, the printer icon at the top of the MSI Message screen will be disabled. (🖨️) If the printer is properly connected, the printer icon at the top of the MSI Message screen will be enabled. (🖨️).



Checking the printer icon will immediately print the corresponding MSI message on the printer. The image below shows an example of the printed message.

```

Meteorological Warning
Priority : Safety
Message ID : 68b753a8_f2e9
Received : 2025-09-02 20:29:29
Expiry : 2025-09-03 08:29:28
Area : MET 11

SECURITE.
THIS WARNING IS ISSUED FOR NORTH OF THE EQUATOR AND EAST OF 100E IN
METAREA XI BY JMA.
WARNING AND SUMMARY 021800.
WARNING VALID 031800.
WARNING IS UPDATED EVERY 6 HOURS.
GALE WARNING.
DEVELOPING LOW 998 HPA
AT 45N 160E SEA EAST OF KURILS MOVING ENE 15 KNOTS.
WARM FRONT FROM 45N 160E TO 44N 164E 41N 1
66E.
COLD FRONT FROM 45N 160E TO 43N 157E 42N 1
51E.
WINDS 30 TO 35 KNOTS WITHIN 500 MILES OF L
OW SOUTHEAST SEMICIRCLE AND
100 MILES ELSEWHERE.
EXPECTED WINDS 30 TO 35 KNOTS WITHIN 600 M
ILES OF LOW SOUTHEAST
SEMICIRCLE AND 100 MILES ELSEWHERE FOR NEX
T 24 HOURS.
RAIF WARNING.
  
```



NOTE

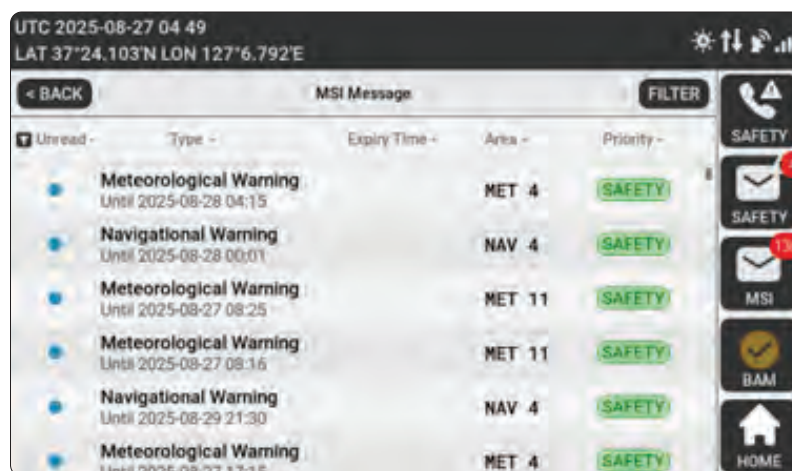
Printing device supports the printing of the Standard International Reference Alphabet (IRA) character set. No other character sets beyond the Standard IRA character set are supported by this device. When printing a test of the diagnostic test, the Korean KS5601 is output, but this is limited to test printing only.

4.2.2 MSI Message Filter

The SDT can filter MSI messages using the Filter function located at the top right of the MSI message list page. Deselect/Select the filter criteria to be applied by unchecking/checking the appropriate labels and then press the **Apply** button. The MSI messages will be filtered according to filter criteria that have been selected.



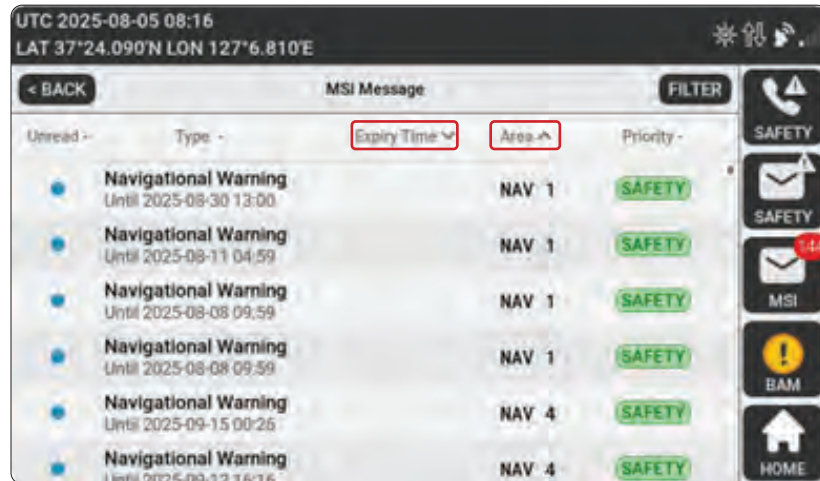
The screenshot below shows the message list filtered to show only unread messages. Note the filter icon next to the Unread column heading that indicates that a filter has been applied.



4.2.3 MSI Message Sort

Messages can be sorted by Unread, Type, Expiry Time, Area, and Priority. Click on the column heading to apply a sort order. Clicking the column heading a second time changes the sort order from descending order of priority to ascending order of priority. Clicking the column heading a third time removes the sort order.

For example, sorting Expiry Time in ascending order and Area in descending order will display the list as shown in the screenshot below.



Unread	Type	Expiry Time	Area	Priority
☐	Navigational Warning	Until 2025-08-30 13:00	NAV 1	SAFETY
☐	Navigational Warning	Until 2025-08-11 04:59	NAV 1	SAFETY
☐	Navigational Warning	Until 2025-08-08 09:59	NAV 1	SAFETY
☐	Navigational Warning	Until 2025-08-08 09:59	NAV 1	SAFETY
☐	Navigational Warning	Until 2025-09-15 00:26	NAV 4	SAFETY
☐	Navigational Warning	Until 2025-09-12 16:16	NAV 4	SAFETY

4.3 Safety Message

The C200M/C700 GMDSS allows users to send a Safety Message to a specific Rescue Coordination Center (RCC) and to receive Safety Message sent by a specific RCC.

However, direct Safety Message transmission between SDT terminals is not supported.



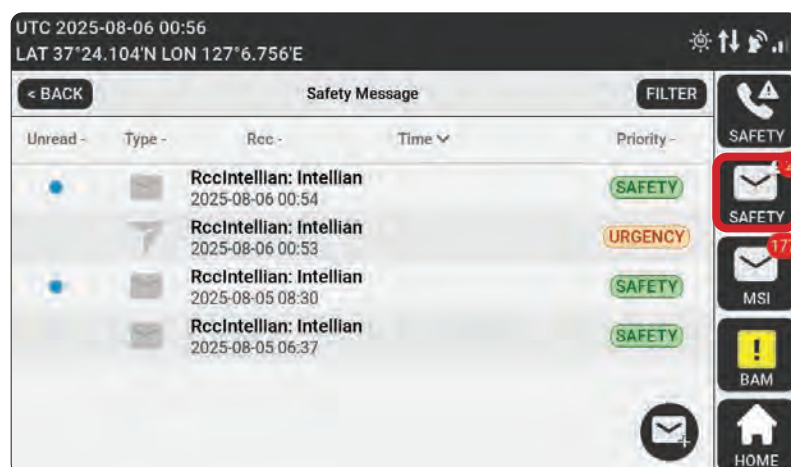
NOTE

The following naming convention is often used to describe who is the sender and who the message is being sent to:

- Mobile Originated: Safety message is sent from the ship to the RCC
- Mobile Terminated: Safety Message is sent from the RCC to the ship.
- The GMDSS System does not support the sending of Safety Messages from one ship to another.

Press the **SAFETY** button on the menu bar to display the entire list of messages. The Safety Message List page shows both sent and received Safety Messages.

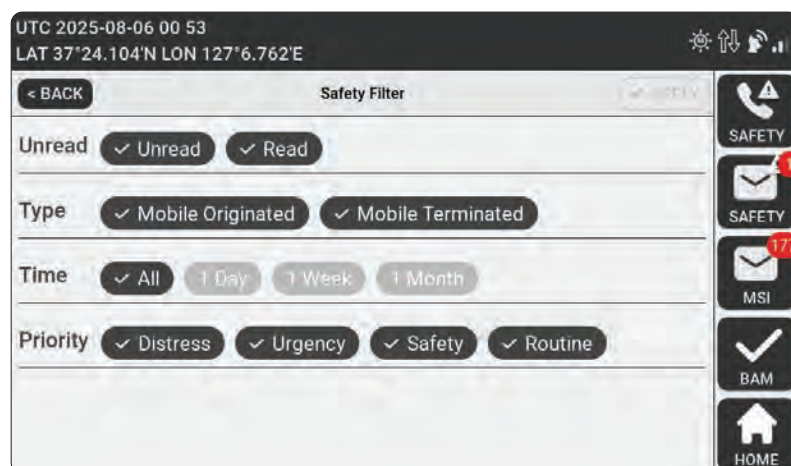
It can also be arranged in ascending or descending order by pressing the button on top of the list. Sort the Unread, Type, RCC, Time and Priority columns to organize the list.



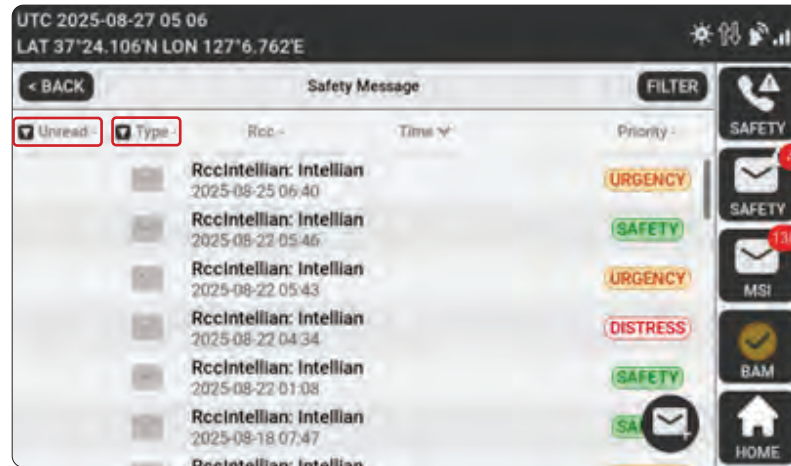
NOTE

One safety message can be up to 1000 bytes in length and the SDT can store at least 200 messages in the internal storage.

Safety Messages can be filtered and sorted in the same way as MSI. (see section 4.2.2)

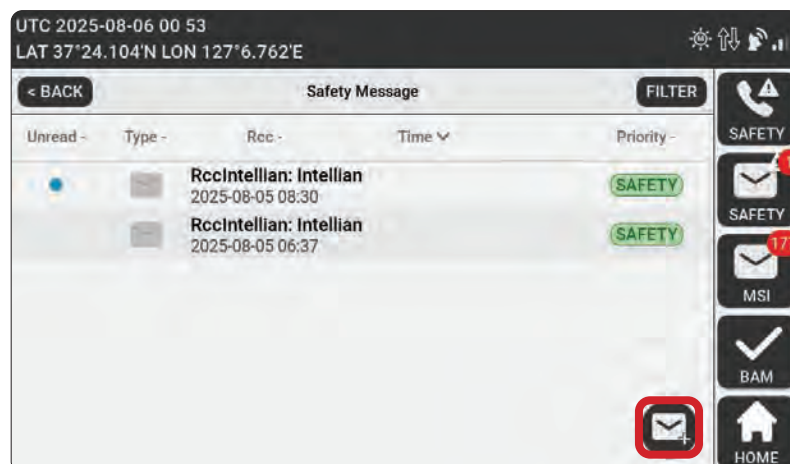


The filter function can be used to only display sent or received messages (Mobile Originated or Mobile Terminated). The screenshot below shows the results of filtering only the read messages among the Mobile Terminated messages.

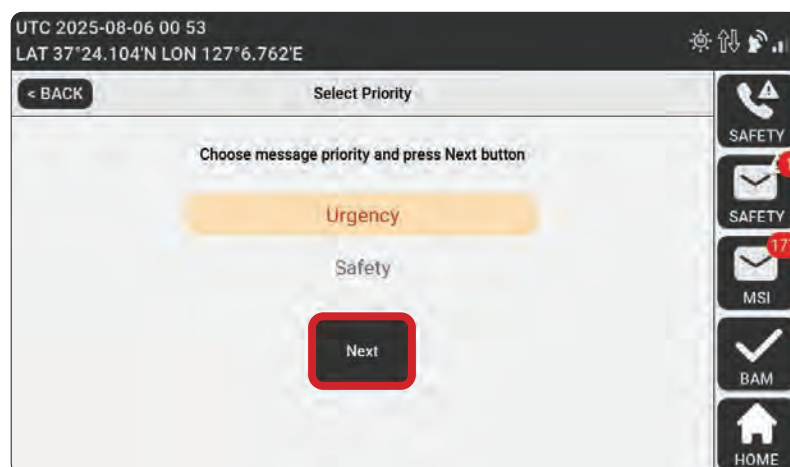


4.3.1 Sending a Safety Message

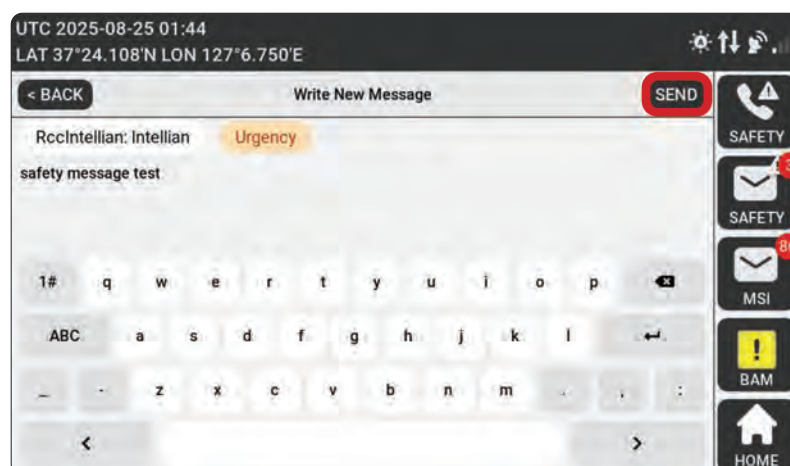
1. Click the  (New message) button at the bottom right of the Safety Message page.



2. Select the Priority (either Urgency or Safety) and, then press the **NEXT** button.

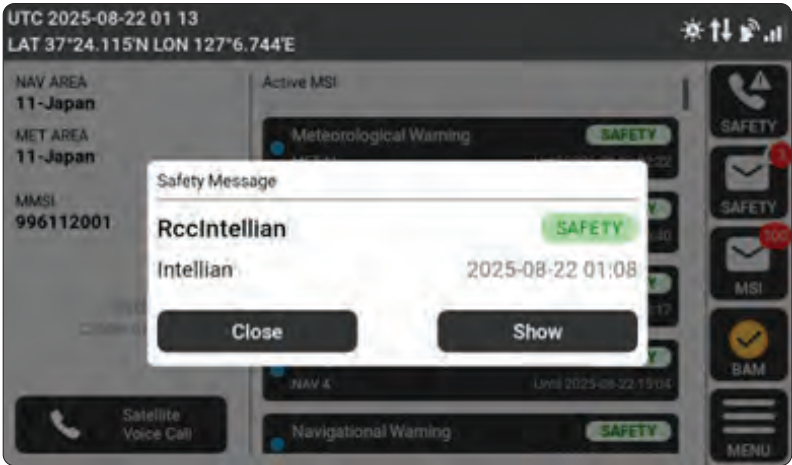


3. On the next page the user can enter the text of the message to be sent. The RCC is selected automatically but can be changed by pressing on the button showing the selected RCC. When the message is complete, press the **SEND** button in the upper right corner to send the message.

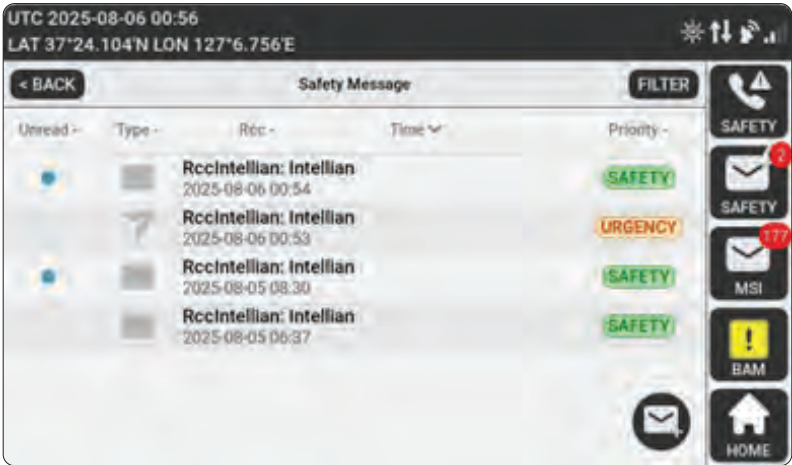


4.3.2 Receiving a Safety Message

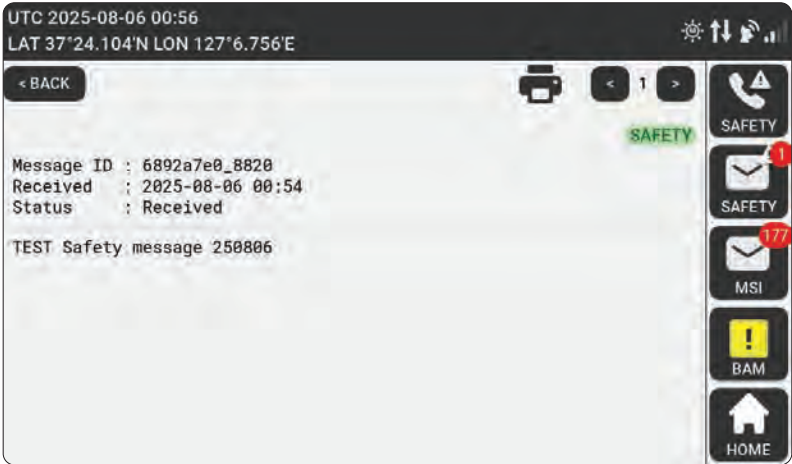
When a new Safety message is received, a pop-up window is displayed. Pressing the **Show** button opens the message so that it can be read immediately or pressing the Close button to dis-miss the pop-up. When a message with Distress/Urgency priority arrives, as shown in the image below, the audio alarm will continue until the message is opened.



You can also see the received Safety Messages in the Safety Message List page. An unread message is marked with a blue dot in the new column on the left side.



The screenshot below shows an opened Safety Messages.



Print Safety Message

If a printer is connected, the user can print the received MSI message. see section 12.2 of the Installation Guide for printing device installation instructions. If the printer is not installed correctly or is not connected, the printer icon at the top of the MSI Message screen will be disabled. (🚫) If the printer is properly connected, the printer icon at the top of the MSI Message screen will be enabled. (🖨️).



Checking the printer icon will immediately print the corresponding MSI message on the printer. The image below shows an example of the printed message.

```
Safety message
Priority : Safety
Message ID : 68b7a80f_d1dd
Received : 2025-09-03 02:29:35
Status : Received

Test Safety Message from Intellian
```



NOTE

Printing device supports the printing of the Standard International Reference Alphabet (IRA) character set. No other character sets beyond the Standard IRA character set are supported by this device. When printing a test of the diagnostic test, the Korean KS5601 is output, but this is limited to test printing only.

4.4 Safety Calls

Press the Safety Call button at the top of the menu bar to navigate to the Safety Call page. Safety Calls have can be assigned one of three priorities:

Priority calls are classified into four levels:

- Distress: Calls associated with a Distress Alert
- Urgency
- Safety

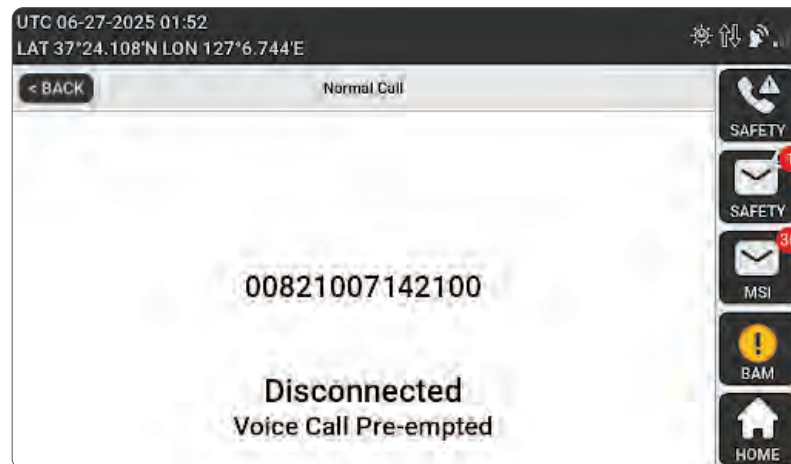


NOTE

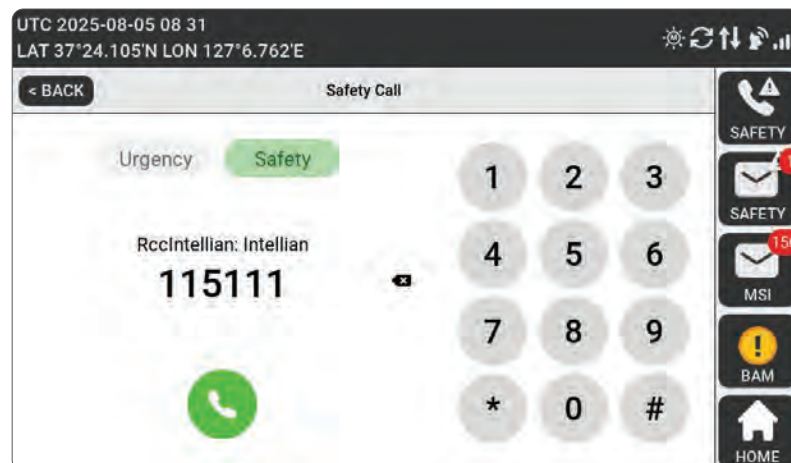
Routine calls are not available in this menu. For a description of routine calls, see section 6.1.

The C200M/C700 GMDSS system preempts lower priority calls to priority calls. If a higher-priority call comes in while another call is in progress, the lower-priority call will be disconnected, and the higher-priority call will start automatically. If a lower-priority call comes in during an ongoing call, it will be ignored.

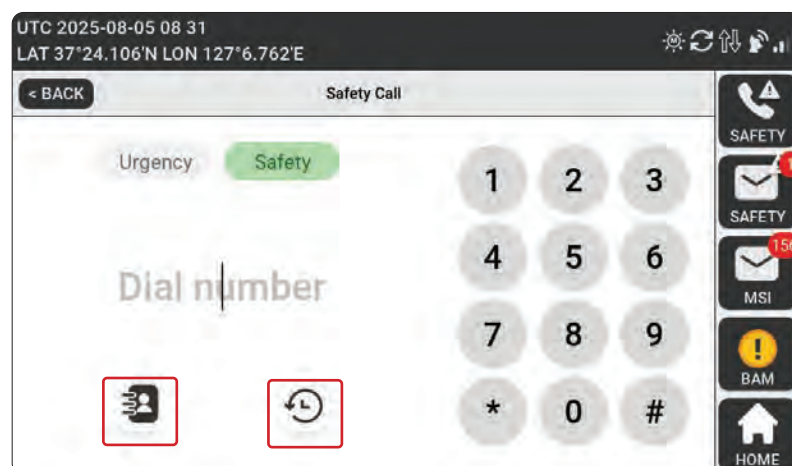
The screenshot below shows the message that is displayed when a lower priority call is preempted.



When accessing the Safety Call page for the first time, it displays the RCC phone number based on the default RCC (Automatic or Manual setup).



If the default RCC number that is first displayed is deleted, the Contacts and Call History buttons will appear

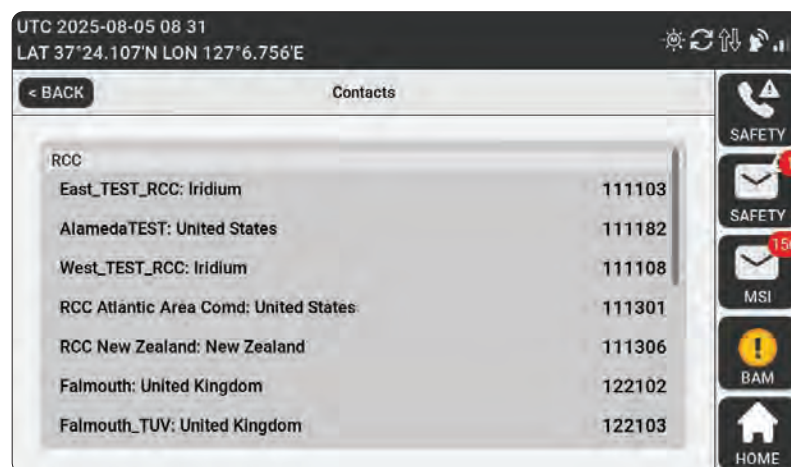
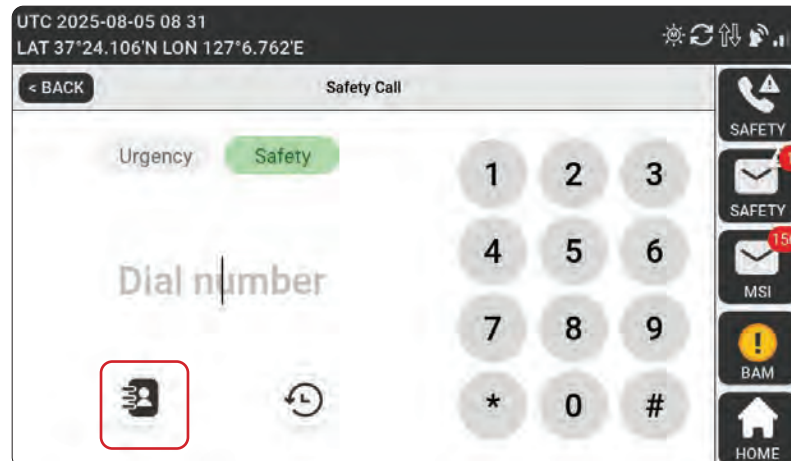


4.4.1 Making Safety Calls

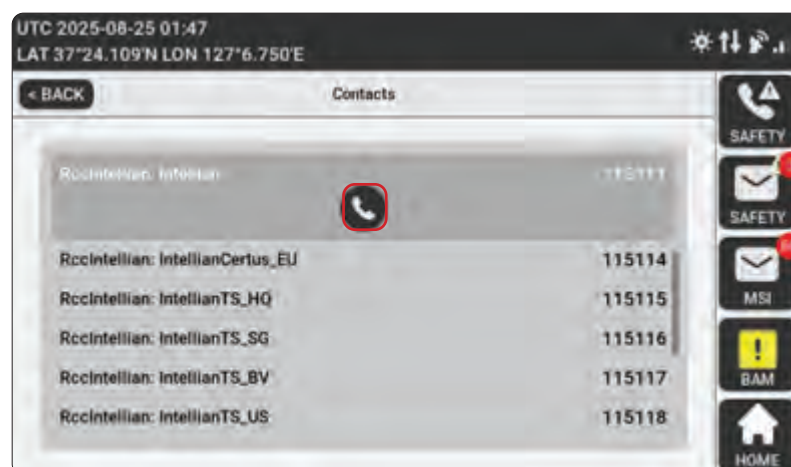
Safety Calls from the ship (Mobile originated calls) can only be made to an RCC. When manually initiating a Safety Call from the Safety Call page the user can only select the priority as Urgency or Safety:

If a priority of Safety is selected the target RCC can be changed as follows:

1. Press the **Contacts** button to bring up a page showing the list of RCC Contacts that you can make a call to.

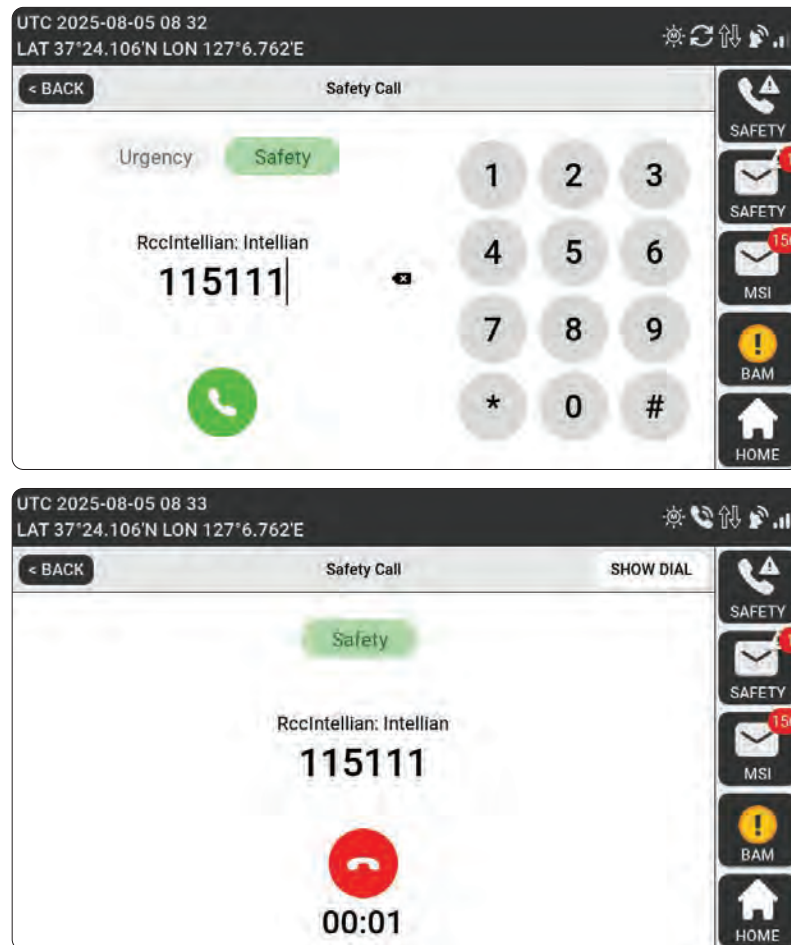


2. Select a desired contact from the list of RCC Contacts and press the black Call button. The Safety Call page is then displayed showing the selected RCC.



Alternatively the short code for the RCC can be entered directly:

Press the green Call button to initiate the call.



4.4.2 Calling a Maritime Service (Short Code Dialing)

A Maritime Service can be called from the Safety Call page by selecting the Safety priority and then clicking on the contacts button to bring up the page that shows the list of RCCs. At the bottom of the list of RCCs are the Maritime Services which are selected in the same way as an RCC. (see previous section.)



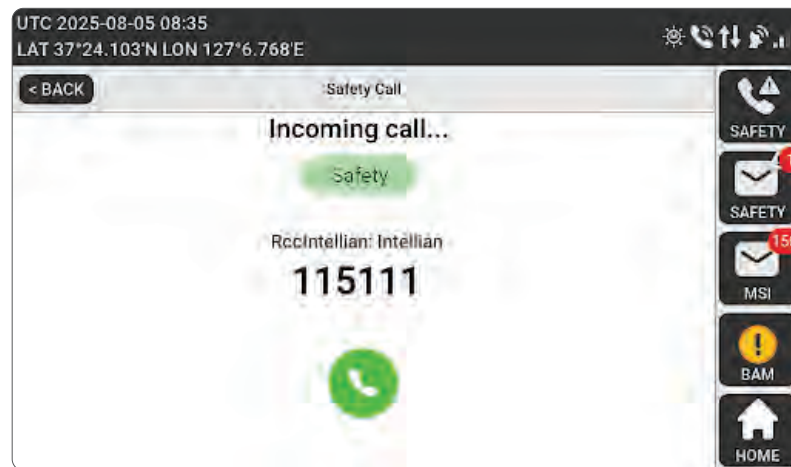
Alternatively the short code for the Maritime Service can be entered directly:

Iridium GMDSS supports the following Maritime Services

Service	Short code	Description
Medical Advice	32	A call to remotely consult with shore-based medical professionals (TMAS - Telemedical Assistance Service) about a medical situation on board (e.g., describing a patient's symptoms and requesting first-aid advice).
Medical Assistance	38	Used when practical medical support is required, going beyond simple advice. This includes arranging for a medical evacuation (Medevac), a doctor to visit the vessel, or diverting to the nearest port with medical facilities.
Maritime Assistance	39	A call to request support from maritime authorities for situations that are not in distress but could affect the safe navigation of the vessel (e.g., requesting a tugboat due to engine failure).
Report Maritime Dangers	42	A call to report a danger to navigation (e.g., a lost container, a drifting buoy, an uncharted reef) to the authorities, so a Navigational Warning can be broadcast to other ships.

4.4.3 Receiving Safety Calls

When an incoming call is received from an RCC, the information will be displayed as shown in the screenshot below. Either press the green Call button to answer the call, or lift the handset from the cradle.

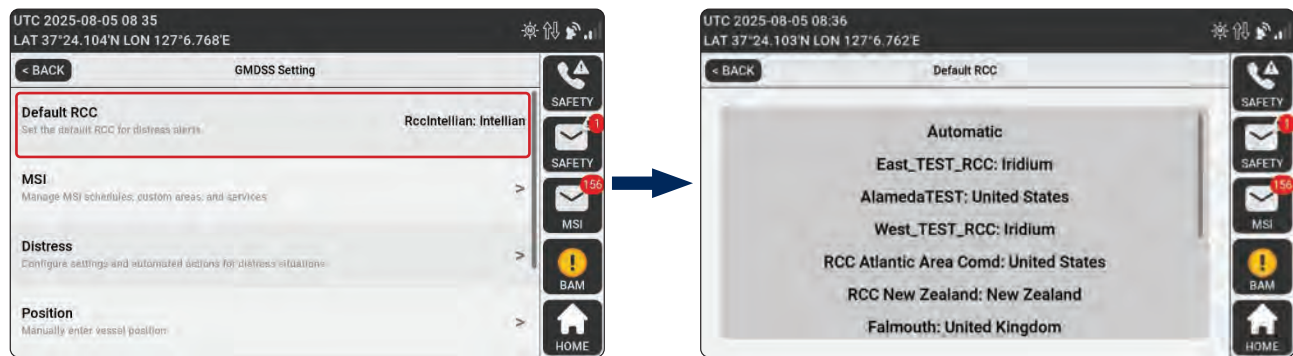


Chapter 5. GMDSS Setting

Go to **Menu** → **GMDSS Settings** to check the GMDSS Settings. The GMDSS Settings submenu includes Default RCC, MSI Setting, Distress Setting, Position, and Auto Print functions.

5.1 Default RCC

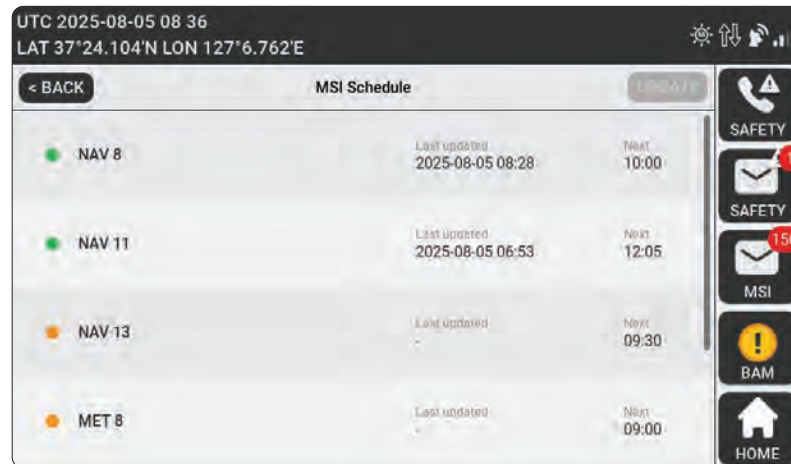
Go to **Menu** → **GMDSS Settings** → **Default RCC** to check the selection of the RCC that will be contacted when the **DISTRESS** button is pressed or contacted when making a Safety Call or sending a Safety Message. If Automatic is selected then the RCC will be automatically be selected based on the location of the vessel. If a specific RCC is selected then that RCC will be contacted irrespective of where the vessel is located.



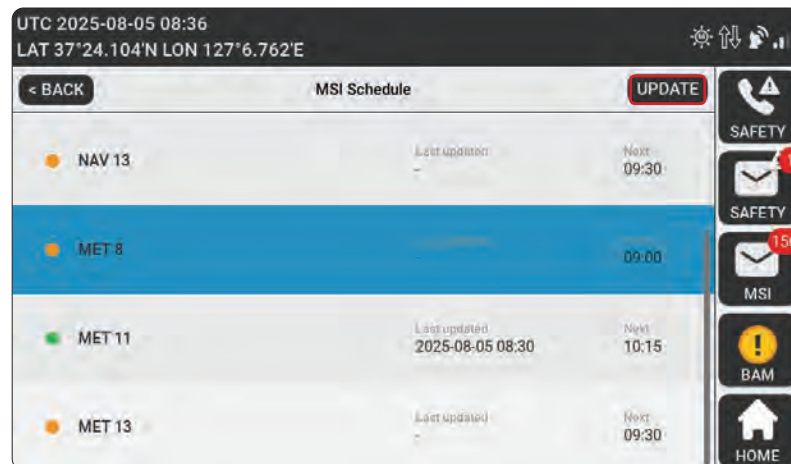
5.2 MSI Settings

5.2.1 MSI Schedule

Go to **Menu** → **GMDSS Settings** → **MSI** → **Schedule** to check the update schedule as per each area. The screen will display the last update time and the next scheduled update. An orange dot indicates areas that have not been updated.



To request an update manually, select the item and press the **UPDATE** button at the top right.

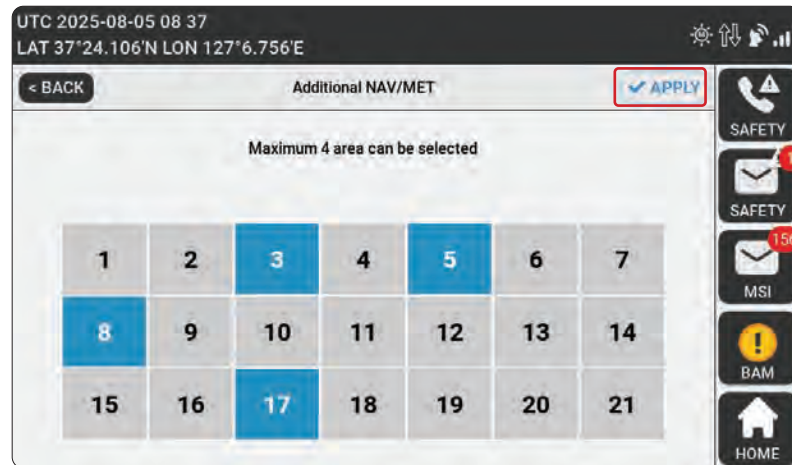


If an additional area is manually added from **Additional NAV/MET** or **Additional CWA**, it can be checked in the **MSI schedule**. (see section 5.2.1) When an additional area is added manually, it will be updated automatically when the scheduled time arrives.

If a nearby NAV/MET area is within 300 NM of the GNSS position (within 100 NM for CWA), additional MSI messages may be received. The added NAV/MET area can be confirmed in the MSI Schedule.

5.2.2 Selection of additional NAVAREA / METAREA

The vessel will always receive MSI for the Sea Area that the vessel is currently located in. It is also possible to receive MSI from up to four additional areas to receive MSI from Additional NAV/MET Areas can be set. Go to **Menu** → **GMDSS Settings** → **MSI** → **Additional NAV/MET** and select the additional Sea Areas. Selecting an already selected Sea Area unselects it. Once you have selected the additional Sea Area(s) press **Apply** to save the selection.

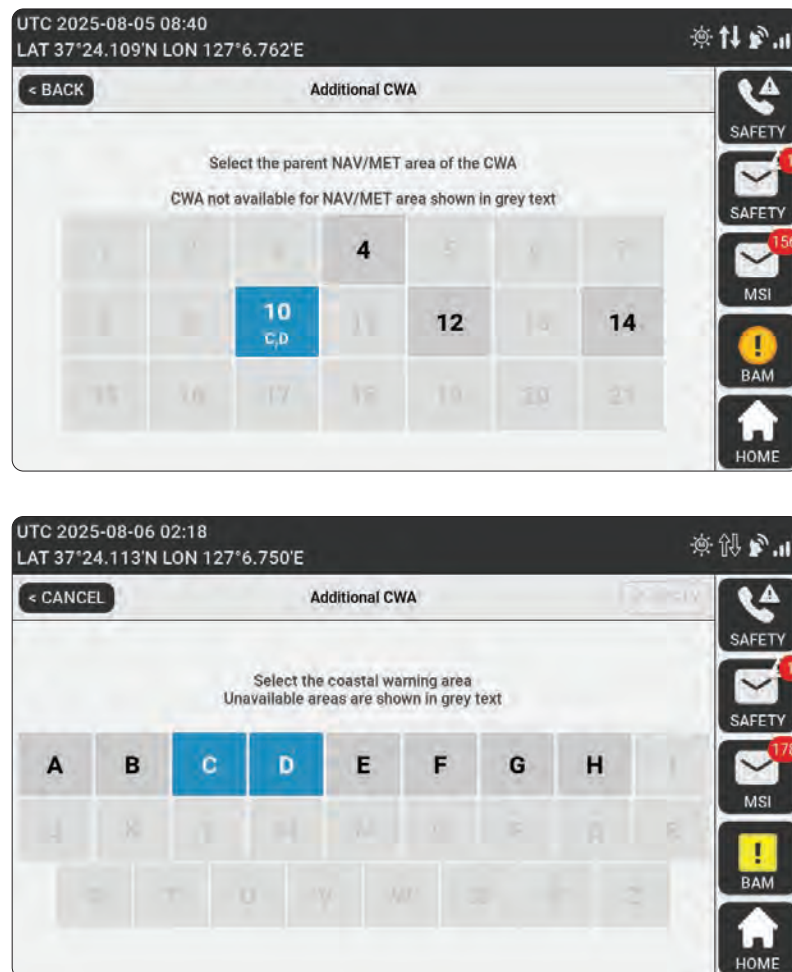


5.2.3 Selecting additional Coastal Warning Areas (CWA)

Some Sea Areas include Coastal Warning Areas (CWA) that have their own MSI. CWA are identified by a letter. To select to receive MSI for a specific CSWA go to **Menu** → **GMDSS Settings** → **MSI** → **Additional CWA**.

Sea Areas with CWA are shown with a dark grey background. When you select one of these Sea Areas a screen is shown where you can select the CWA associated with that Sea Area. The applicable CWA associated with Sea Area are shown in dark grey. Selecting an already selected CWA unselects it.

Press **Apply** to save the selection. A maximum of 4 CWAs can be selected for each Sea Area.

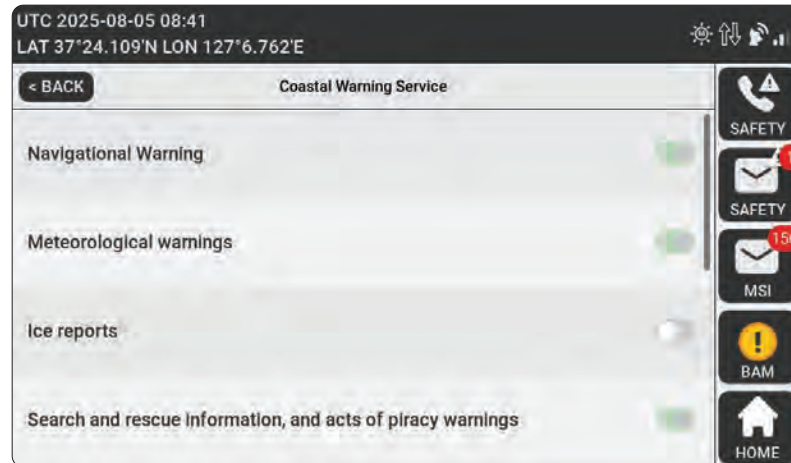


In the screenshot above, only CWA areas C and D within Sea Area 10 are selected.

5.2.4 Selecting Services to receive in Coastal Warning Areas

There are a range of different MSI Services available in Coastal Warning Areas (CWAs) Some Services are mandatory, such as Navigational Warnings. Other Services are voluntary and can be turned on and off. The screenshot below shows the Coastal Warning Services page where the Services can be selected. Note that those with a grey toggle switch are mandatory.

The applied selected Coastal Warning Services will be applied for all watched Coastal Warning Areas. The complete list of services is available in the table below.



Service	Default Settings	User Configurable
Navigational Warnings	Enabled	No
Meteorological Warnings	Enabled	No
Ice Reports	Disabled	Yes
Search and Rescue, and act of Piracy Warnings	Enabled	No
Meteorological Forecasts	Enabled	No
Pilot Service Messages	Disabled	Yes
AIS	Disabled	Yes
LORAN Messages	Disabled	Yes
SATNAV Messages	Disabled	Yes

5.3 Distress Settings

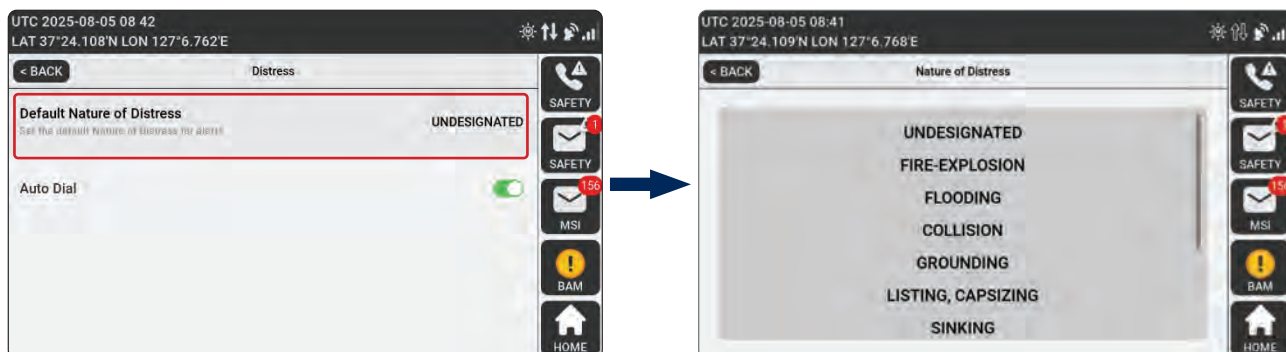
The settings associated with a DISTRESS alert can be configured using these submenus. The Distress Settings window consists of the following configuration items: Auto Dial and Nature of Distress.

5.3.1 Nature of Distress

The Nature of Distress information can be configured when the Distress Alert is being sent to the RCC.

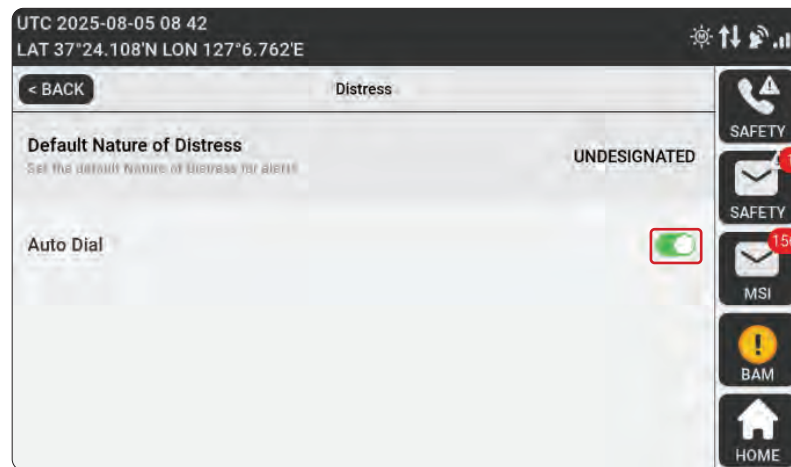
By default, the Nature of Distress is set to Undesignated however, if there is time as events are unfolding then, the user can change the default Nature of Distress.

Nature of Distress	Description
UNDESIGNATED	Nature of the Distress is not known or not reported
FIRE / EXPLOSION	Ship is on fire or has explode
FLOODING	Ship is flooding
COLLISION	Ship has been involved in a collision
GROUNDING	Ship is stranded
LISTING	Listing or capsizing
SINKING	Ship is sinking
DISABLED&ADR(IFT)	Essential shipboard systems have failed and the ship is adrift
ABANDONING	Ship is being abandoned
PIRACYMAN	Ship is under attack Attacks by pirates or armed robbers
OVERBOARD	One or more people have fallen overboard

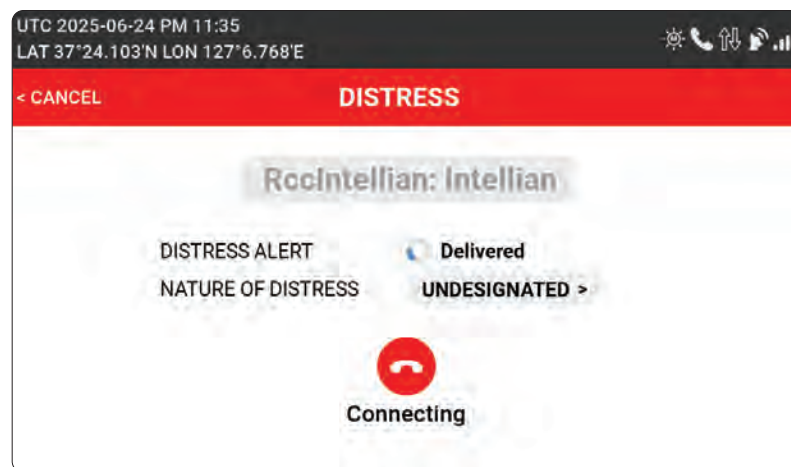


5.3.2 Auto Dial

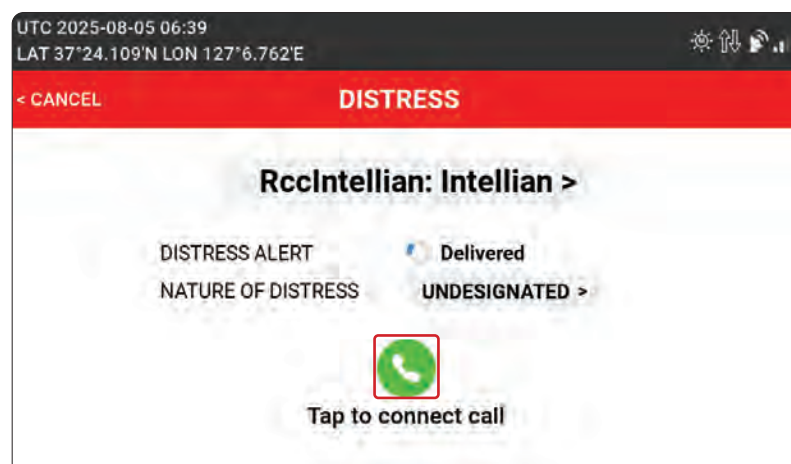
By default the designated RCC will be called immediately after a Distress Alert has been sent. However it is possible to change this so that the RCC is not automatically called.



The screenshot below shows the RCC being automatically called once the Distress Alert has been delivered.

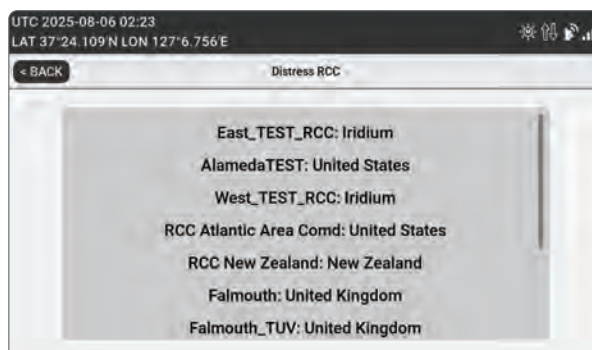
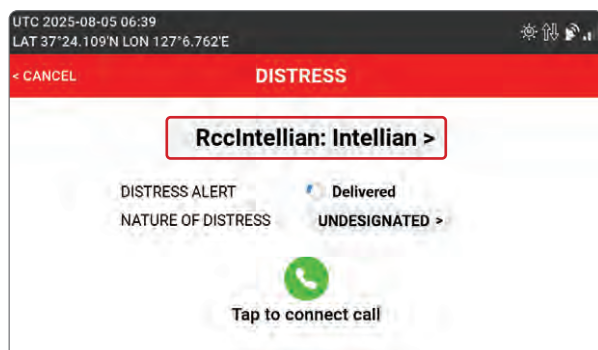


If the Auto Dial is disabled, the RCC will not be called automatically when the Distress Alert has been delivered. In this case, the user can manually call the RCC by pressing the green button at the bottom as shown on the screenshot below.



**NOTE**

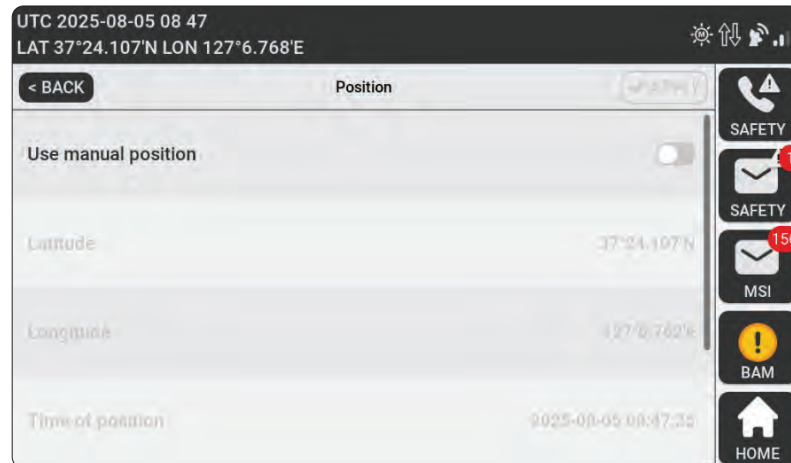
The RCC can be changed during a Distress Alert. This function can be used only when Auto Dial is disabled and a Distress call is not in progress. Press the Distress Alert is activated and select a new RCC from the drop down list name is activated.



5.4 Position Settings

Normally the GNSS receiver in the above deck unit is used to determine the location of the vessel. However, it is also possible to enter the location of the vessel manually in the event that the GNSS receiver fails or is being jammed or spoofed. To access the Position Settings go to **Menu** → **GMDSS Settings** → **Position**.

5.4.1 Use Manual Position



Use this toggle to enter the vessel's position manually. In addition to manually entering the latitude and longitude of the vessel the following information is required to calculate the vessels subsequent position:

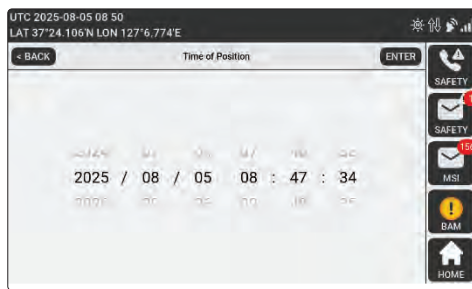
- The date and time of when the vessel was at the manual position (e.g. when the position was measured or estimated)
- The vessel's speed over the ground
- The vessel's course over the ground

When the vessel's position is calculated based on manually entered data the regulations require that the manual position is updated at least every four hours. If the Manual Position is more than four hours old a BAM Alert will be raised to notify the bridge team that the Manual Position should be updated.

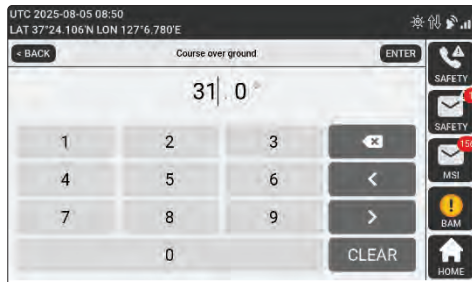
5.4.2 Update Manual Position



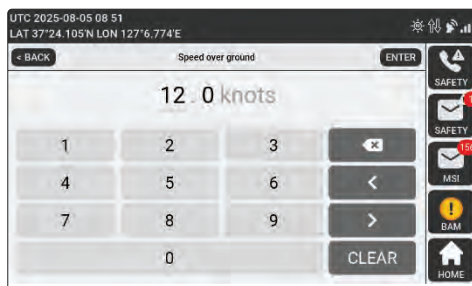
1. Enter the vessel's Latitude (between **90° 00.0000'** North and **90° 00.0000'** South) then press **ENTER**.
2. Set the Longitude (between **180° 00.0000'** East and **180° 00.0000'** West) then press **ENTER**.



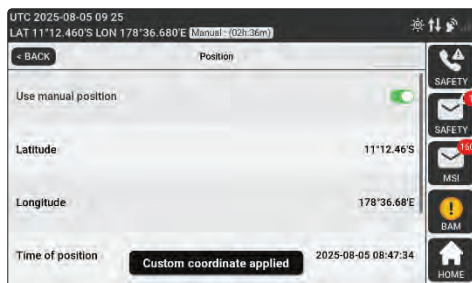
- Set the Date and Time of when the manual position was measured or estimated (Note that this can be up to 4 hours in the past) then press **ENTER**.



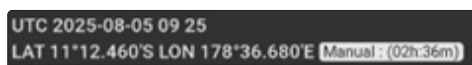
- Set the Course Over Ground (between 0° and 359.99°) then press **ENTER**.



- Set the Speed Over Ground (between 0 knot and 60.0 knots) then press **ENTER**.

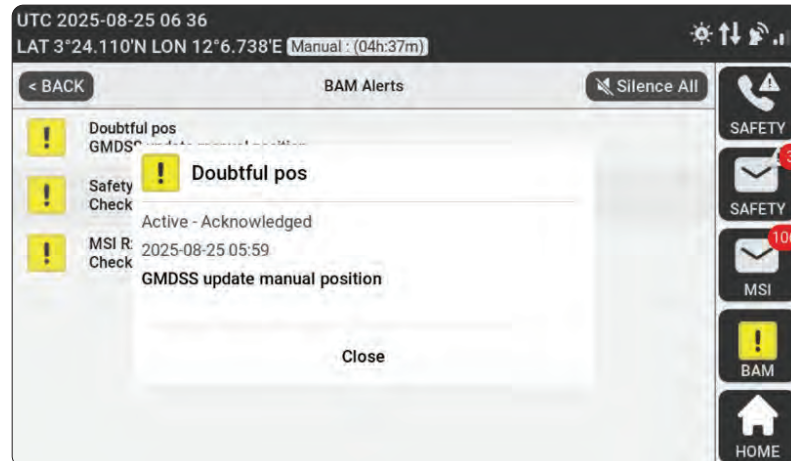


- Click the **Apply** button to apply the settings. (Note that these, settings cannot be applied while the MSI Schedule update is in progress— This is indicated by the update icon (🔄) in the status bar.)

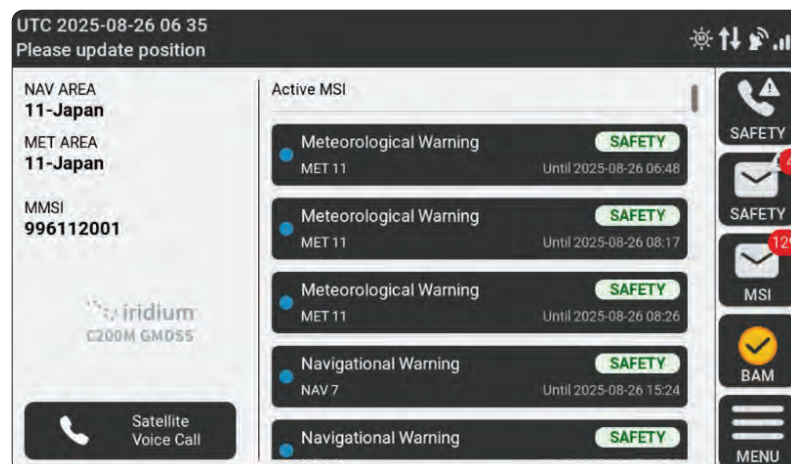


- A label is shown next to the vessel's position in the status bar indicating that this is calculated based on manually entered information and the elapsed time since the manual position was measured/estimated.

When the vessel's location is calculated using manually entered information the regulations require that it is updated at least every four hours. A BAM alert (Active Caution: Doubtful Position) is triggered if the manually entered position is more than 4 hours old.

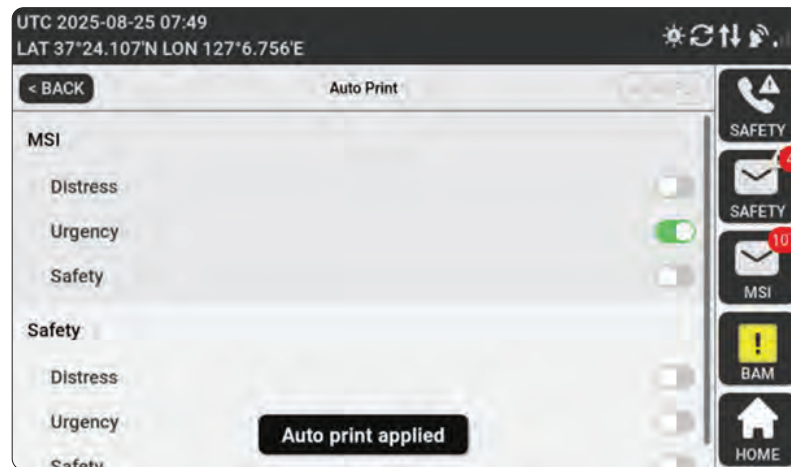


If the manual position has not been updated for 24 hours then, a message reading '**Please update position**' will appear at the top of the screen where the Latitude and Longitude are displayed. This message will disappear when manual position is disabled or when the manual position is updated.



5.5 Auto Print

Go to **Menu** → **GMDSS Settings** → **Auto Print**. This function is available when a printer is connected to the SDT. The system can be configured to automatically print received MSI and Safety messages when they are received. It is also possible to specify which types of MSI and Safety Messages are automatically printed based on priority (Distress, Urgency, Safety).



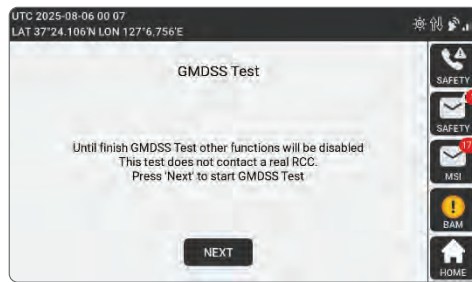
5.6 GMDSS Test



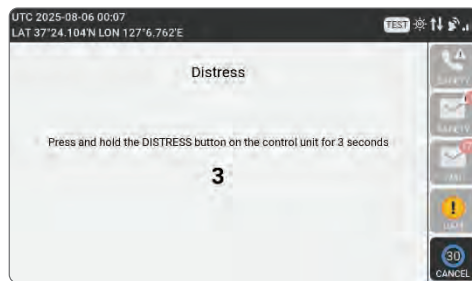
NOTE

The GMDSS Test function will not contact an active RCC. It contacts the Iridium GMDSS Test service which is completely automated.

Go to **Menu** → **GMDSS Settings** → **GMDSS Test**. The GMDSS functions will be tested to ensure they are working correctly. In Test Mode, the user is asked to initiate a Distress Alert using the physical **DISTRESS** button. A test Distress Alert is then sent to the IGS (Iridium GMDSS System). Subsequently a test Distress Voice call is made the IGS which answers with an automated response.



1. Click the **Next** button to start the GMDSS Test.

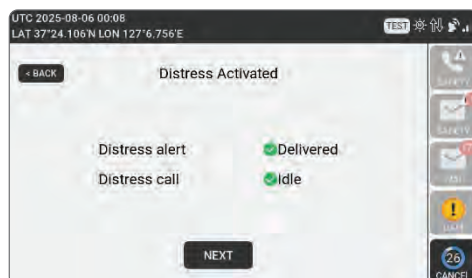


2. Press and hold the **DISTRESS** button for 3 seconds.
3. Verify the Distress status.

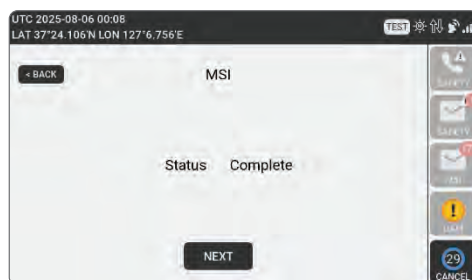


NOTE

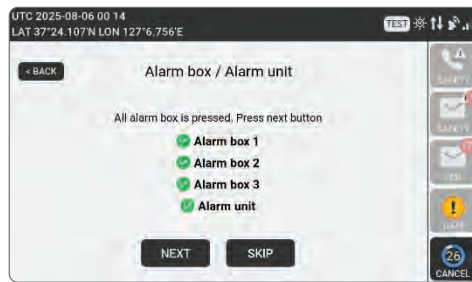
During a GMDSS Test, if no response is received for 30 seconds in situations requiring user interaction (e.g., Click Next button), the test will automatically terminate.



4. When the test Distress Alert has been successfully transmitted to the Iridium GMDSS Server, a test Distress Voice call will be initiated.



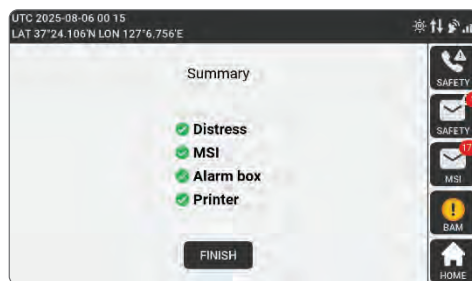
5. Verify MSI.



6. If an Alarm Box and Alarm Unit are connected to the system, press the Distress button for each accessory and verify them. If an Alarm Box and an Alarm Unit are not installed, press the **SKIP** button to skip this step.



7. If a printer is connected to the system then press **Test Print** to confirm that it is working correctly.

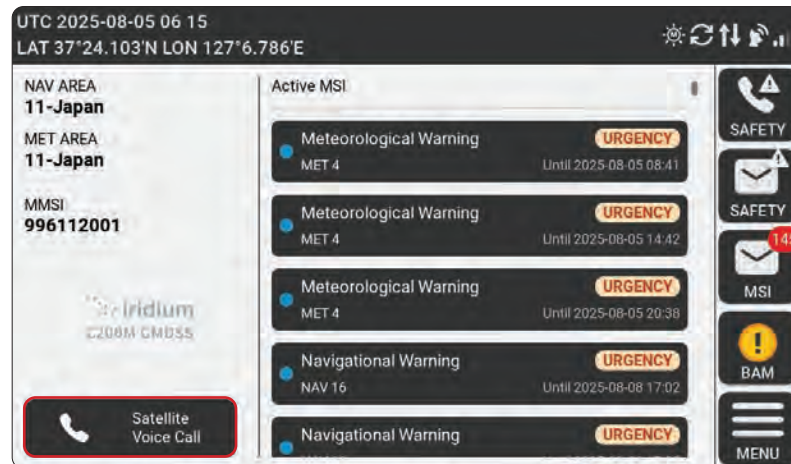


8. The test is completed and a summary of the outcome of the tests is displayed.

Chapter 6. Non-GMDSS Function

6.1 Satellite Voice Call

The SDT can be used to make and receive non-GMDSS satellite voice calls. To initiate non-GMDSS voice call, press the **Satellite Voice Call** button in the lower left-hand corner of the Home page.



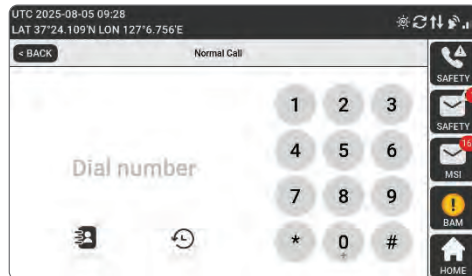
NOTE

Charges apply for Non-GMDSS phone calls.

6.1.1 Making a non-GMDSS phone call (Mobile Originated)

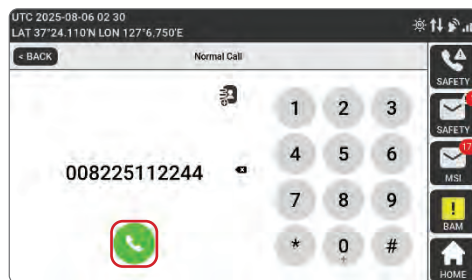
In addition to pressing the Satellite Voice Call button on the Home page, a call can also be initiated by lifting the handset off the hook:

General Outgoing Call using Handset:

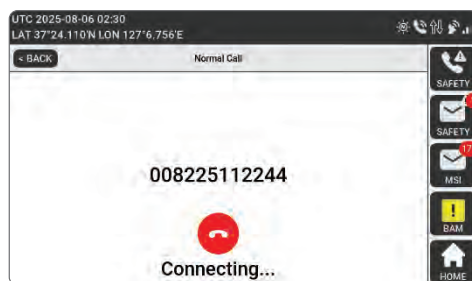


1. Pick up the handset (or press the Satellite Voice Call button), and the Routine Call page will be displayed and there will be an audible dial tone.

2. Enter **00**, followed by the country code and the phone number using the dial pad.



3. Press the green Connect button to make the call.

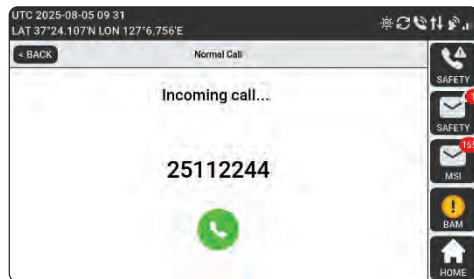


4. The call is connecting.

6.1.2 Receiving an Incoming Call (Mobile terminated)

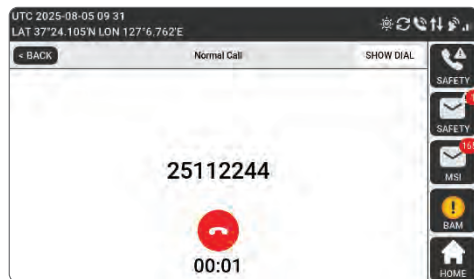
There are two methods for answering an incoming call:

Using the Handset:



1. On the incoming call screen, pick up the handset.
2. Communicate using the handset.

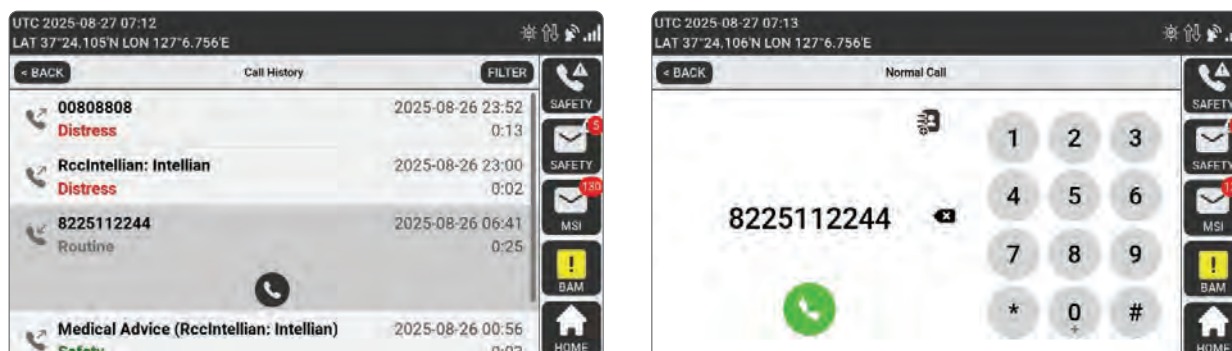
Using built-in speaker:



1. On the incoming call screen, press the green Connect button.
2. The caller can be heard through the built-in speaker. Note there isn't a built-in microphone. To speak to the caller, pick up the handset. The caller will then be heard through the speaker in the earpiece of the handset. (The built-in speaker is muted.)

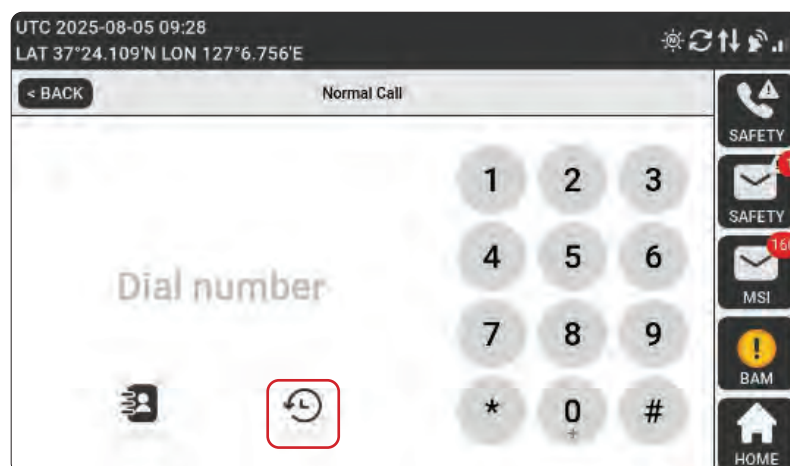
6.1.3 Call History

Call History shows a list of recent calls that have been made and received by the system. Call History contains up to 200 calls. When an entry is selected, the call connect button appears below. Clicking it brings up the dial pad screen phone number already entered.

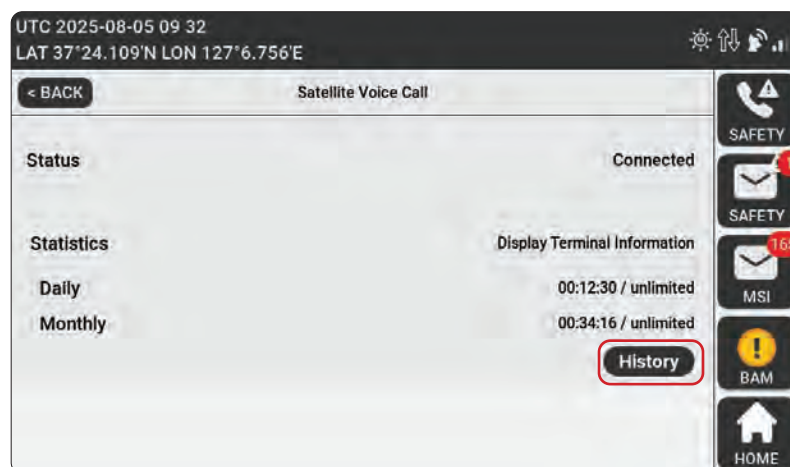


Call History can be accessed in the following ways:

- By clicking the **Satellite Voice Call** button, the **History** button is located at the bottom of the dial pad screen. Press the **History** button to view the call history.



- Go to **Menu** → **Non-GMDSS Function** → **Satellite Voice Call**. Press the **History** button at the bottom of the screen to view the call history.



6.1.4 External Phone

The SDT supports a maximum of three phones, the SDT handset and a further two phones that can be connected using the BDU's LAN port. (For installation examples, see section 6.5 of the installation guide.)

The Iridium Certus GMDSS SIM supports a maximum of 3 phone numbers (Line 1 to 3). Among the phone numbers assigned to the SIM, the number corresponding to Line 1 can only be used for the SDT handset. The other two phone numbers can be assigned to other phones. (Line 2 and 3)

Phone settings must be configured on the AptusLX Web UI. see section 14.3.2 for details.

- Mobile Originated Call: You can make outgoing calls using the phone number of the Line set for outbound.
- Mobile Terminated Call: You can receive incoming calls using the phone number of the Line set for inbound.

However, for the SDT phone, although outbound is set to Line 1, inbound is configured for all Lines (1 to 3). Thus, if the SDT has a maximum of 3 phone numbers, it can receive all incoming calls (MT Call) made to those 3 different phone numbers.

Example:

If 2 additional SIP phones are installed:

(Phone A is allocated to both inbound and outbound on Line 2, and Phone B is allocated to both inbound and outbound on Line 3)

- Line 1 MO Call: SDT only
- Line 1 MT Call: SDT only
- Line 2 MO Call: Phone A
- Line 2 MT Call: SDT, Phone A
- Line 3 MO Call: Phone B
- Line 3 MT Call: SDT, Phone B

6.1.5 Additional Call Features

The SDT supports Additional Call Features, which include Call Barring, Call Forwarding, and Voicemail.

Call Barring

The C200M/C700 GMDSS system operator can set the Call Barring function. This function can be enabled and disabled on the Satellite Voice Call screen, as follows:



NOTE

- The default password is 0000.
- Do not prefix the additional call feature with 9.

• Outgoing Call Barring

- Activation: *33*<4-digit password> + dial button
- Deactivation: *34*<4-digit password> + dial button
- Check Status: *33 + dial button

• Incoming Call Barring

- Activation: *35*<4-digit password> + dial button
- Deactivation: *36*<4-digit password> + dial button
- Check Status: *35 + dial button

Call Forwarding

The C200M/C700 GMDSS can be configured to forward all incoming calls. Calls can be forwarded for one or more of four reasons: Unconditional (all calls are forwarded), Busy, No Answer, or Not Reachable (terminal is not visible on the network). To activate the Call Forwarding function, the user must first complete the registration process. The full procedure, including deactivation and status checks, is provided below.

Cause	Register	Activation	Deactivation	Check Status
Unconditional	*21*<Number>	*21	*22	*23
Busy	*67*<Number>	*67	*68	*69
No Answer	*61*<Number>*<timeout>#	*61	*62	*63
Not Reachable	*24*<Number>	*25	*26	*27

Voicemail

When a user dials *86 on the C200M/C700 GMDSS, they access voicemail. Entering the mailbox number allows access to the voicemail menu. The menu options are as follows:

- Press 1: Listen to new messages
- Press 2: Listen to saved messages
- Press 3: Personal options
- Press 9: Exit

6.2 Satellite Data Service



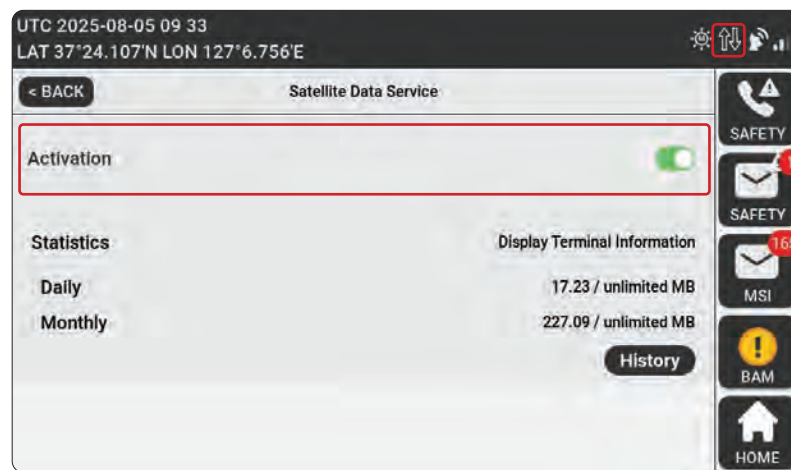
NOTE

This function enables or disables the data service for devices (e.g. laptops) connected to the BDU, including wired and wireless connections. For a wired connection, connect the LAN cable directly to the BDU. For installation examples, see section 6.5, 6.6 of the installation guide.

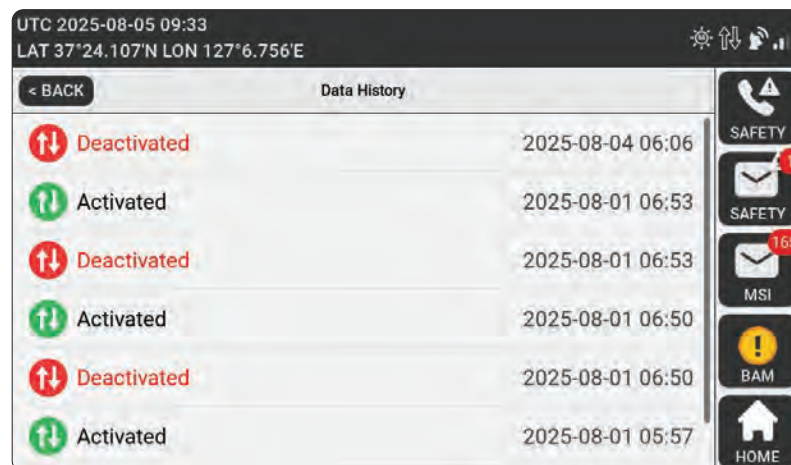
Go to **Menu** → **Non-GMDSS Function** → **Satellite Data Service**. In the Satellite Data Service page, activate satellite data by toggling the activation button. Daily and monthly usage, as well as history, can also be viewed.

The icon on the right hand side of the Status Bar indicates whether the Satellite Data Service is currently using data or not. When the Satellite Data Service is deactivated, the icon disappears.

-  : Currently using data.
-  : Not currently using data.

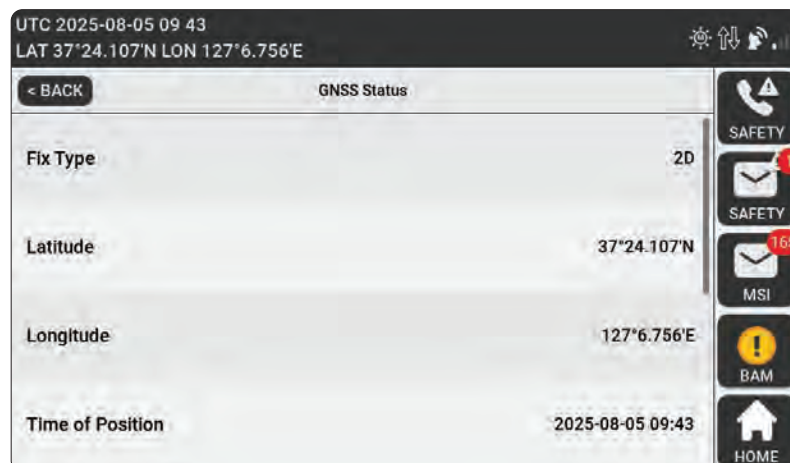


Select the **History** button in the Satellite Data Service page to see the history of when the service has been activated and deactivated.



6.3 GNSS Status

Go to **Menu** → **Non-GMDSS Function** → **GNSS Status**.



The current status of the GNSS receiver is shown on the GNSS Status page.

This can be used to check the vessel's current position. The following information is available:

- Fix Type
- Latitude
- Longitude
- Time of Position
- COG
- SOG
- Accuracy
- Satellites in use



NOTE

If the vessel's position has been entered manually (see section 5.4) the GNSS Status page can be used to view the vessel's position according to the GNSS.

Chapter 7. Bridge Alert Management

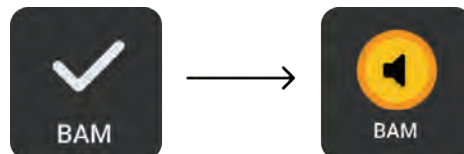
7.1 Bridge Alert Management (BAM)

Bridge Alert Management (BAM) is an IMO-defined framework for the management, distribution, handling, and presentation of alerts on a ship's bridge. This system allows the bridge team to focus on the vessel's safe operation and quickly identify any alerts that require immediate action to maintain the safety of the crew and the vessel. The C200M/C700 GMDSS system supports integration in accordance with the following standards (IEC 62923-1 and IEC 62923-2 Bridge Alert Management). A list of all BAM alerts supported by the C200M/C700 GMDSS can be found in Chapter 14.3.

The BAM Alert button in the Menu Bar is accessible from all pages. Button is the fourth of the five buttons on the right. The icon on the button indicates highest priority active alert. Pressing the BAM Alert button opens the BAM Alert page which lists all of the active BAM Alerts. The list contains required basic information (priority, state, title/description) and is sorted by display priority then time of last state change.



Check the top priority alert status in the current active BAM via the **BAM** button on the Menu Bar.



7.2 Alert priority and state

The severity of an alert is signified by its priority. The BAM framework categorizes alerts into four levels: Emergency Alarm, Alarm, Warning, and Caution. The C200M/C700 GMDSS system can generate alerts with the following priorities:

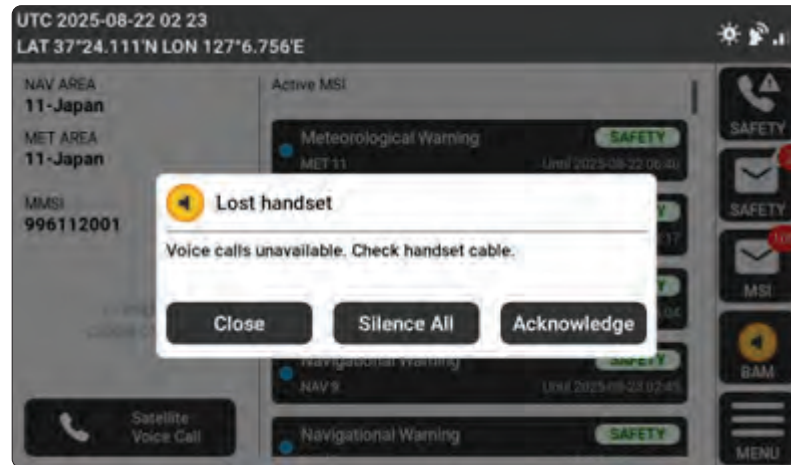
- **WARNING** : Requires immediate attention, but no immediate action by the bridge team. These alerts are precautionary to inform the bridge team of changed conditions that are not immediately dangerous but could become hazardous if not addressed.
- **CAUTION**: The lowest priority alert. It signals awareness of a condition that does not warrant an alarm or warning but still needs attention beyond usual considerations of the situation or provided information.

The priority of an alert in the BAM system is indicated by the shape and color of its icon, while the symbol inside the icon represents the alert's state. Refer to the table below for details.

Priority	Icon	state	Condition	Audible signal
Warning		Active-unacknowledged	Alert is currently active and requires acknowledgement.	Two short audible signal
		Active-silenced	Alert remains active but sound has been muted by operator.	No
		Active-acknowledged	Alert is active and has been confirmed by operator.	No
		Rectified-unacknowledged	Alert condition resolved but acknowledgement still pending.	No
	None	Normal	No alert condition.	No
Caution		Active	Caution alert is currently active.	No
	None	Normal	No alert condition.	No

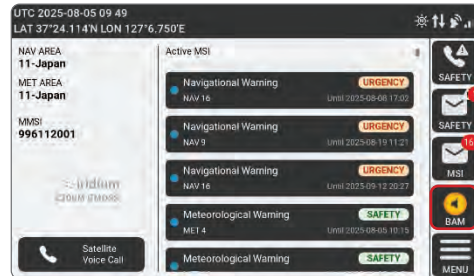
7.3 Receive alert

When the system receives a new alert, the contents will be displayed in a pop-up window. To take action, press Silence or Acknowledge. If you don't want to process the alert immediately, press the **CLOSE** button to close the pop-up window. Later, you can press the BAM button on the Menu Bar to take action from the alert list.



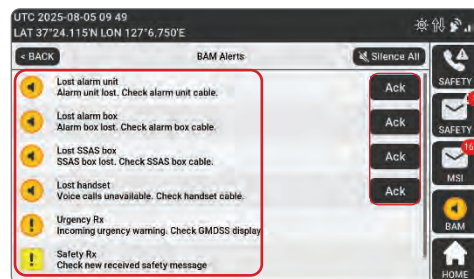
7.4 BAM list

The BAM List page is used to manage active BAM Alerts.



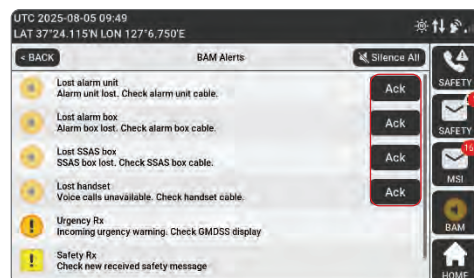
Viewing active alerts:

Press the **BAM** button on the Menu Bar to view a list of all active BAM alerts.



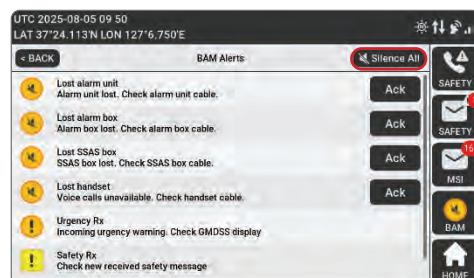
Control individual alerts:

Select the **Silence** or **Ack** (Acknowledge) buttons to control each alert individually.



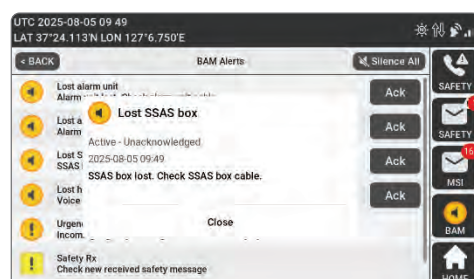
Acknowledge alerts:

- Warning Alerts: These can typically be acknowledged. Select the specific alert you wish to acknowledge from the list. Press the **Ack** (Acknowledge).
- Caution Alerts: These alerts do not require acknowledgment.



Silence All Alerts:

To silence all active alerts simultaneously, press the **Silence All** button located at the top right of the screen. See section 7.5.



Viewing Alert Contents:

Select an alert from the list to display its relevant details and contents.

The alert list is sorted according to the Display Priority rules. The display priority is determined by combining the alert's State and its assigned Priority, with the highest display priority alert shown at the top of the list.

Default Sorting Order:

	Priority	State
1.	Warnings	Active - Unacknowledged / Silenced
2.	Warnings	Rectified - Unacknowledged
3.	Warnings	Active - Acknowledged
4.	Cautions	Active

**NOTE**

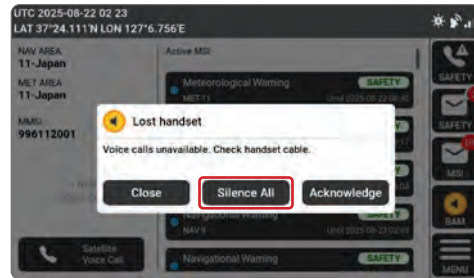
Within the same display priority, alerts are displayed with the one whose state changed most recently shown first. (State changes related to activating or returning from Silence do not affect this order.)

7.5 Temporary silence

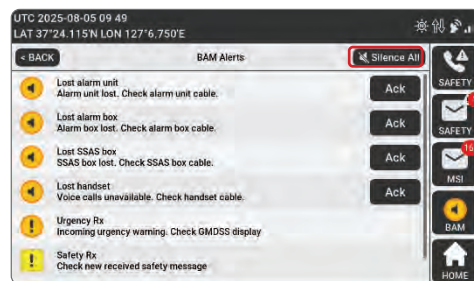
To mute all alerts and the corresponding audible signal temporarily, press the **Silence All** soft key. This temporary silence lasts for 30 seconds. After this period, any silenced active alerts will return to their unacknowledged state, causing the audible signal to resume.

Silence All Alerts

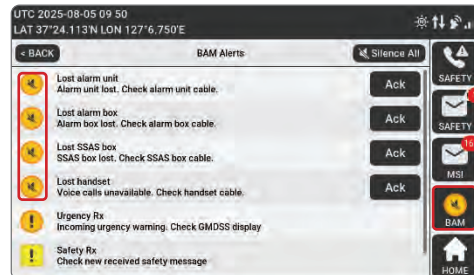
To silence all active alerts at once, press the **Silence All** button. This button can be found in two locations:



- Case 1. Press the **Silence All** button on the BAM pop-up window.



- Case 2. Press the **Silence All** button in the BAM List section.



System Behavior in Silence All Status:

In the Silence All status, the BAM icon will change to the Silence All icon, and it will keep the Silence All status for 30 seconds. After 30 seconds have passed, it will revert to the original status again.

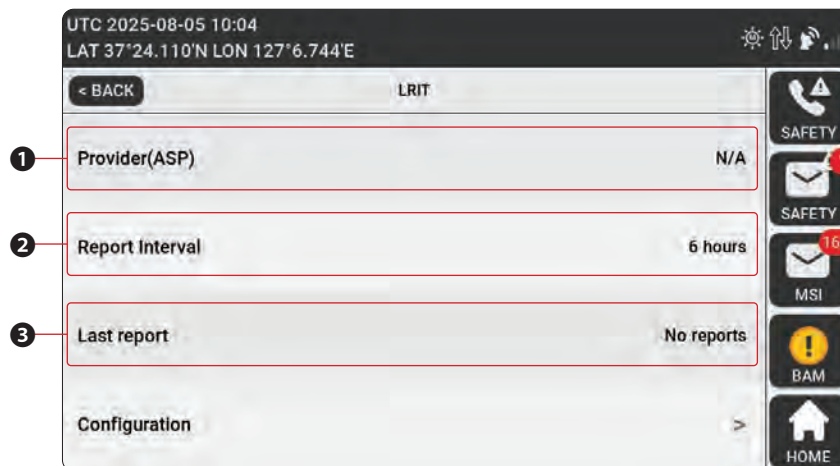


Chapter 8. Long Range Identification & Tracking (LRIT) service

C200M/C700 GMDSS supports LRIT (Long-Range Identification and Tracking) functionality, which automatically transmits your vessel's position information at regular intervals. When LRIT is activated, the system sends location data to authorized maritime authorities, including your flag state government and search and rescue services, through the LRIT Data Centre.

8.1 LRIT Status

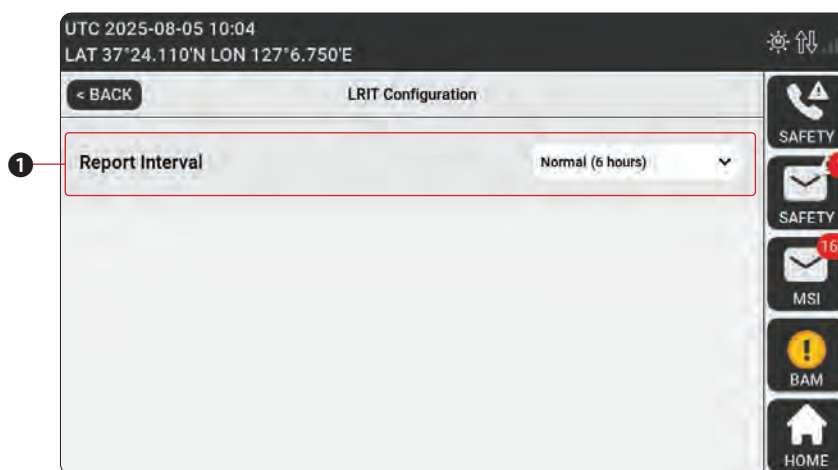
Go to **Menu** → **Non-GMDSS Function** → **LRIT**. The LRIT Status section provides essential information regarding the vessel's LRIT service status. The key parameters shown in the LRIT Status display are:



No.	Item	Description
①	Provider (ASP)	Displays the Application Service Provider (ASP) responsible for handling LRIT transmissions. If no ASP is assigned, it shows "N/A" Otherwise, it displays the assigned ASP name (e.g., polestar).
②	Report Interval	Represents the frequency at which LRIT information is transmitted. By default, it shows '6 hours' But, it may display either a value set by the user or a value defined by the ASP, and the ASP can modify the value set by the user.
③	Last Report	Shows the timestamp of the most recent attempt to transmit LRIT information.

8.2 LRIT Settings

Go to **Menu** → **Non-GMDSS Function** → **LRIT** → **Configuration**. Enter your password to access LRIT Settings (this is the same as your account password in AptusLX, which defaults to 12345678). The LRIT Settings section provides the configuration for the following parameters:



No.	Item	Description
①	Report Interval	Set the time interval for reporting ship position information. • Normal: Set the report interval to 6 hours (default). • Reduced (24 hours): Set the report interval to 24 hours, reducing the reporting frequency. • Disabled: Disable the reporting function, no reports will be sent.



NOTE

According to section 4.4.1 of IMO MSC.263(84) resolution, only in exceptional circumstances, such as when a ship is undergoing repairs, modifications, or conversions in dry-dock or port, or is laid up for a long period, should the vessel's master set the LRIT transmission interval to 'Reduced' or 'Disabled'.