SAILOR®

SAILOR 6110 mini-C GMDSS



SAILOR 6110 mini-C GMDSS

User manual

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Safety summary

The following general safety precautions must be observed during all phases of operation, service and repair of this equipment. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture and intended use of the equipment. Thrane & Thrane assumes no liability for the customer's failure to comply with these requirements.

Observe marked areas

Under extreme heat conditions do not touch areas of the units that are marked with this symbol, as it may result in injury.



Microwave radiation hazards

During transmission the antenna in this system radiates Microwave Power. This radiation may be hazardous to humans close to the antenna. When the system is powered, make sure that nobody gets closer than the recommended minimum safety distance of 0.3 m (1 ft.).

Keep away from live circuits

Operating personnel must not remove equipment covers. Only qualified maintenance personal must make component replacement and internal adjustment. Under certain conditions, dangerous voltages may exist even with the cable removed. To avoid injuries, always disconnect power and discharge circuits before touching them.

Compass safe distance

Minimum safety distance: 5 m from the GMDSS Terminal.

About the manual

Intended readers

This manual is a user manual for the SAILOR 6110 mini-C GMDSS. The manual is intended for anyone who is using or intends to use this system. No specific skills are required to operate the SAILOR 6110. However, it is important that you observe all safety requirements listed in the beginning of this manual, and operate the system according to the guidelines in this manual.

Manual overview

Note that this manual does not cover installation of the system. For information on installation, refer to SAILOR 6110 mini-C GMDSS, Installation manual [1]. Part numbers for related manuals are listed in the next section

This manual has the following chapters:

- Introduction contains an overview of the SAILOR 6110 and a brief description of each unit in the system.
- Getting started explains how start up the system. It also contains a short guide to the most important functions.
- Using the system explains how to set up and use the system with a SAILOR 6006 Message Terminal.
- Service contains information on software update and a short troubleshooting guide and explains how to check the status of the system.

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Related documents

The below list shows the documents related to this manual and to the SAILOR 6110.

Ref	Title and description	Document number
[1]	SAILOR 6110 mini-C GMDSS, Installation manual	98-130752
[2]	SAILOR 6006 and SAILOR 6007 Message Terminal, Installation manual	98-130088
[3]	SAILOR 6101 and SAILOR 6103 Alarm Panel, Installation and user manual	98-130981
[4]	SAILOR 6081 PSU and Charger, Installation and user manual	98-130980
[5]	System 6000 GMDSS Console system, Installation manual	98-131571
[6]	THRANE 6194 Terminal Control Unit, Installation and user manual	98-131593
[7]	Moxa EtherDevice Switch, EDS-205A/208A Series, Hardware Installation Guide	1802002050023

Typography

In this manual, typography is used as indicated below:

Bold is used for the following purposes:

- To emphasize words.
 Example: "Do not touch the antenna".
- To indicate what the user should select in the user interface.
 Example: "Select SETTINGS > LAN".

Italic is used to emphasize the paragraph title in cross-references.

Example: "For further information, see *Connecting Cables* on page...".

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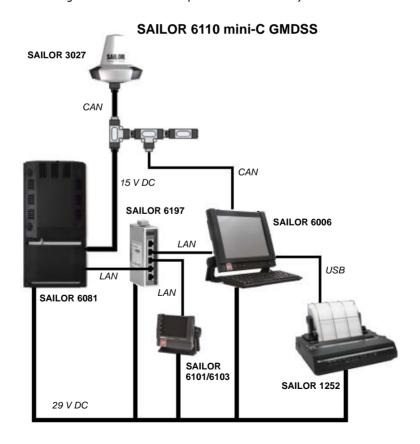
Introduction

Welcome

Congratulations on the purchase of your SAILOR 6110!

With the SAILOR 6110 you can send and receive data, including Distress Alerts, via satellite through the Inmarsat C network.

The drawing below shows an example of a SAILOR 6110 system.



This chapter has the following sections:

- System overview
- · System units
- User interface
- The Inmarsat C services

System overview

GMDSS

Global Maritime Distress and Safety System or GMDSS is a communication system to enhance safety at sea. This global system comprises both radio and satellite based technology carriers, and is currently mandatory for all vessels of over 300 GT and vessels otherwise included in SOLAS (the International Convention for the Safety of Life at Sea).

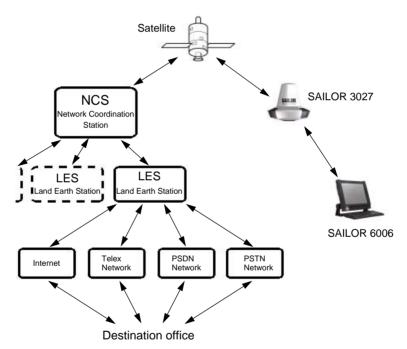
Overall satcom GMDSS service is operated by Inmarsat and overseen by IMSO, the International Mobile Satellite Organization and adheres to the IMO, the International Maritime Organization.

The SAILOR 6110 is a GMDSS approved communication system designed for use with the Inmarsat C satellite network.

The SAILOR 6110 mini-C GMDSS

The Inmarsat C satellite network is the link between the SAILOR 6110 and the destination office. It uses four geostationary satellites to cover the world. For each satellite there is an NCS, Network Coordination Station, handling registration of the mobile unit (in this case the SAILOR 3027) in the Inmarsat C system.

Each NCS is associated with a number of LESs, Land Earth Stations, which handle the transmission between the mobile units and the destination office.



The SAILOR 3027 is connected to a SAILOR 6006 Message Terminal, where you can read and write messages and send Distress Alerts. This communication is transmitted via the SAILOR 3027 to/from the Inmarsat C satellite network.

System units

The basic SAILOR 6110 consists of the following units:

SAILOR 3027 GMDSS Terminal. Contains both transceiver. GPS receiver and omnidirectional antenna for the Inmarsat C system. Connects to other equipment, primarily the SAILOR 6006, through a CAN interface carrying both power and bi-directional communication.



SAILOR 6006 Message Terminal. Enables you to send and receive messages, send Distress Alerts, monitor system status and test the system. The SAILOR 6006 has a touch-screen interface and comes with a SAILOR 6001 keyboard.



SAILOR 1252 Printer. Prints messages and reports from the SAILOR 6006.



SAILOR 6101/6103 Alarm Panel. Enables you to send Distress Alerts. SAILOR 6101 connects to Inmarsat C.



SAILOR 6103 connects to Inmarsat C. MF/HF and/or VHF.



For a more detailed description of the units, refer to the installation manual for the SAILOR 6110 mini-C GMDSS.

SSA option

The Ship Security Alert System provides ships with alarm buttons, which can be activated in case of a piracy or terrorist attack. The alarm is a covert signal that has no sound and no flashing lights, so it is not seen nor heard by any intruders on board the ship.

The SSA option consists of the THRANE 6194 Terminal Control Unit and three to six SSA alarm buttons and one test button. It connects to the SAILOR 6110 system through the CAN interface. The CAN interface also provides the power for the SSA option.

SAILOR 3027 THRANE 6194 CAN LAN CAN **SAILOR 6100-913 SSA Kit/** 15 V DC SAILOR 6100-916 SSA US Kit SAILOR 6197 SAILOR 6006 USB LAN SAILOR 6081 SAILOR 1252 SAILOR 6101/6103 29 V DC

SAILOR 6110 mini-C GMDSS with SSA

For further information on the SSA option, refer to the manual for the THRANE 6194 Terminal Control Unit [6].

User interface

The main user interface for the SAILOR 6110 is in the SAILOR 6006 Message Terminal. With the SAILOR 6006 Message Terminal you can send and receive messages, send Distress Alerts, view system status and configure the system.



The Message Terminal has a touch-screen for operating the system. You can also use the keyboard, which is mandatory in GMDSS.



In most cases, you must also have a second Distress button, e.g. an alarm panel, in your system. For information how to use it, see the manual for your alarm panel.

For details on how to use the Message Terminal, see *Using the system* on page 19. To get started with the mini-C GMDSS, see *Getting started* on page 11.

6 User interface

The Inmarsat C services

The SAILOR 6110 supports the following services through the Inmarsat C system. For a description of these services, see the next sections.

- Distress alerting and Distress priority messaging
- Enhanced Group Calling (EGC)
- Message transmission
- Position reporting
- Data reporting and polling

Distress alerting and Distress priority messaging

If a ship or a crew is in grave and imminent danger, maritime Inmarsat C and some mini-C models are used to send a Distress Alert by pressing a dedicated Distress button.

The alert contains information on the ship's identity (Inmarsat C mobile number), ship's position (latitude and longitude), ship's course and speed, nature of Distress, date / time when the alert was sent and time when the ship's position was last updated.

All Distress Alerts are automatically routed through the addressed LES to an associated Maritime Rescue Coordination Centre (MRCC), which will establish communication with the ship and launch the search and rescue (SAR) operation the ship may need.

After sending the initial Distress Alert, if time permits, it is possible to send a more detailed Distress priority message to give more details about the Distress event and ask for the required assistance.

The Distress priority message should be sent via the same LES as the Distress Alert, to ensure that it is delivered automatically to the same MRCC.

Enhanced Group Calling (EGC)

The Inmarsat C system has a special capability known as Enhanced Group Call (EGC), which enables authorised information providers to broadcast messages to selected groups of ships. Reception by ships that are fitted with Inmarsat C or mini-C terminals is automatic. A special header is added by the system to the EGC message to indicate the group of mobile terminals or the geographical area to which the message is to be sent.

Two EGC services are available:

- EGC SafetyNET the international safety service, which allows authorised
 maritime safety information (MSI) providers, such as meteorological
 offices, hydrographic officers and MRCCs to broadcast messages to all ships
 in certain geographical areas.
 - MSI includes navigational and meteorological warnings, meteorological forecasts and other urgent safety-related information, which is addressed to all ships in NAVAREA / METAREA, user-defined circular or rectangular area or coastal area.
 - Reception of SafetyNET messages is a mandatory function of the GMDSS equipment that is required to be carried in certain ships under the provision of the International Maritime Organisation's Safety Of Life At Sea (SOLAS) convention.
- EGC FleetNET the international commercial service, which allows
 authorised information providers, such as commercial subscription
 services, shipping companies or governments to broadcast messages to
 selected groups of vessels, each of which has registered with the
 information provider and been added to a FleetNET closed group /
 network. The mobile terminals on these groups of vessels are identified by
 an ENID (EGC Network IDentification) common to the group.
 - For further information on EGC via Inmarsat C read the Inmarsat Maritime Communications Handbook, Chapter 6, or visit the Inmarsat Maritime Safety Services section of the Inmarsat website www.inmarsat.com.

Message transmission

Ship to shore: Text and data from Inmarsat C and mini-C terminals can be sent to:

- An e-mail address
- Any telex or fax (text, one way only) number
- Any computer connected to the public telephone and data networks (PSTN and PSDN), using a telephone modem number
- Another Inmarsat C / mini-C terminal
- A Short (or Special) Access Code (SAC).

The maximum message size is up to 10 kb for the GMDSS Terminal.

Shore to ship: Text and data can be sent via telex, e-mail and the data and telephone (PSDN / PSTN) networks. To be able to send messages to ships, a shore-based message originator needs to be registered (to have a commercial service agreement) with an Inmarsat C service provider of their choice.

Ship to ship: Messages can also be sent in a ship-to-ship direction from one Inmarsat C / mini-C terminal to another.

Position reporting

Most of Inmarsat C and mini-C models are integrated with Global Navigational Satellite System (GNSS) receivers, such as GPS, to provide highly reliable, round-the-clock position information of a ship, which can be used for position reporting.

The position reporting service is based on using the data reporting and polling protocol and allows a shore-based subscriber (base station or shipping company) to request position information from a vessel, as a single report or automatic reception at fixed intervals, e.g. every six hours.

A ship's terminal can also be programmed to send regular position reports to any desired destination.

The position report includes ship's identity, latitude, longitude, course, speed, date / time of the position report and time of the last position update.

In the mini-C GMDSS, the report is sent to a DNID (Data reporting Network IDentification) that is effectively a mailbox created on some LESes. The GMDSS Terminal sends its reports to this mailbox and other tracking systems can then access and empty the mailbox. The mini-C GMDSS supports up to 64 DNIDs.

Up to 255 mobile terminals can use the same DNID, and the specific terminal is identified by a member number between 1 and 255.

The DNID must be created on the LES before the position-reporting feature can be used. Once the DNID account is created, the LES can download the DNID information to the desired terminals, thereby enabling them to send reports to the DNID.

Data reporting and polling

Inmarsat C users may need to acquire information (short data reports) from vessels, or to collect data automatically at fixed or variable intervals.

The data reporting service allows for the transmission of information, in packets of up to 32 bytes on request or at prearranged intervals from Inmarsat C or mini-C terminals, to shore-based customers.

Polling allows shore-based customers to interrogate an Inmarsat C or mini-C terminal or group of terminals by sending a special polling command. The polling command instructs a terminal or group of terminals to send a data report immediately, start sending regular reports, change transmission schedule of reports or perform another task of the polled terminal(s).

Getting started

This chapter explains how to register, start up and log on your SAILOR 6110. It has the following sections:

- Registration
- Starting up the system

Registration

Before using the SAILOR 3027 GMDSS Terminal on the Inmarsat-C system you must register the terminal to the system. In most cases the distributor has already filled in the SARF (Service Activation Registration Form) for your SAILOR 3027 when you receive your SAILOR 6110 mini-C GMDSS.

For details on registration, see the Installation manual for the SAILOR 6110 mini-C GMDSS.

After registration you must use a Message Terminal to set up the mobile number in the SAILOR 3027. See Setting the mobile number in the SAILOR 3027 on page 71.

Initial configuration



The initial configuration may already have been done during installation of the system. If so, please skip this section.

For configuration you must have a keyboard connected to the Message Terminal.

To select the mini-C software

The first time the Message Terminal is switched on, you are asked to select the Message Terminal software to use. The Message Terminal can be used for Radiotelex or for Inmarsat C.

Important

Make sure you select the correct software for the system you are going to use. Once you have selected the software you cannot change it back!

Enter "1" for Inmarsat C.

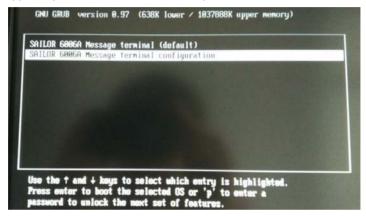
```
Choose which Message Terminal software to install
1: Immarsat—C application
2: Radioteless for ME/ME application
Enter 1 or 2:
```

After entering Inmarsat C, the Message Terminal automatically restarts as an Inmarsat C message Terminal.

To configure a duplicated system

If you have a duplicated system, you have to set up which system is the primary and which one is the duplicated system. Do as follows:

1. During startup of the Message Terminal and before the main screen appears, press **Esc** on the connected keyboard.

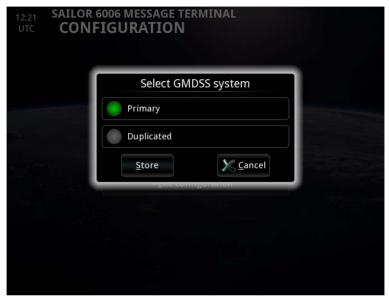


- 2. Use the down key to highlight the configuration line and then press **Enter** to continue.
- 3. To configure a duplicated system, select Select GMDSS system.¹



1. "Calibrate touch screen" is only used for Message Terminals with resistive touch screen (early models).

- 4. Type in the password if you are prompted. The password is 1234.
- 5. Select whether the current mini-C GMDSS should be the primary or duplicated system and then select **Store**.



6. Confirm your selection.

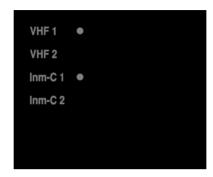
Important

Remember to set the Message Terminal in the other part of the duplicated system to the opposite of this one.

In the Message Terminal, under **System > About**, you can see whether the system is a Primary or Duplicated system.



If you have an Alarm Panel in the system, the primary and duplicated systems will appear in the Alarm Panel as Inm-C 1 and Inm-C 2 respectively.



Starting up the system

Powering the system

When all units are connected correctly and you have registered the SAILOR 3027, do as follows to power the system:

- 1. Make sure the power source is on.
- 2. Switch on the SAILOR 6006.
 - Use the power switch in the right side of the SAILOR 6006, or
 - if you have installed a remote on/off switch, use that instead.

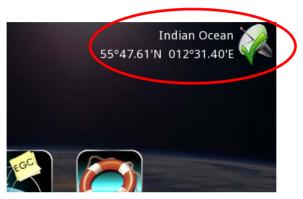
The SAILOR 6006 starts up and sends a signal to switch on the SAILOR 3027. The SAILOR 6006 shows the current status in the upper right corner of the display.



For an overview of the user interface, see Overview of the screen on page 24.

Logging into the satellite network

If the system was not already logged into the Inmarsat C network, it logs in automatically at startup. The upper right corner of the display shows if the system is logged on.



If, however, the selected satellite is no longer available, you must manually select another satellite to log into.

To log into the satellite network manually, do as follows:

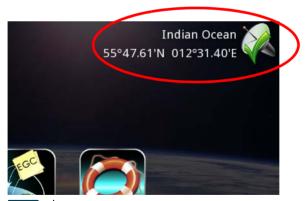
1. When the main menu of the SAILOR 6006 appears, select **Network**.



2. On the Network Status page select Login.



Select the Ocean Region to which you want to log in.
 If the selected satellite is available, the system will now log on.
 When the display shows the Ocean Region and the position, and there is a green check mark at the satellite symbol, the system is ready for use.



Note

The Ocean Region is only displayed if the system is idle and there are no errors - otherwise the text will show the current status.

Using the system

This chapter describes how to operate the SAILOR 6110, primarily using the SAILOR 6006 Message Terminal. It has the following sections:

- Sending a Distress Alert
- Overview of SAILOR 6006 Message Terminal
- Menu overview
- Working with messages
- Receiving EGCs
- Printing, saving or deleting EGCs or messages
- Network status
- Managing the list of Contacts
- Power status
- Viewing system details
- Changing regional settings and night mode
- Changing the Distress Alert settings
- · Changing the EGC settings
- Changing the Message settings
- Changing the Network settings
- Position
- Testing Distress buttons in the system
- Using the SAILOR 1252 Printer

For details on the Inmarsat C services, see The Inmarsat C services on page 7.

Sending a Distress Alert

Important

Only send a Distress Alert if you are in immediate danger! The Distress Alert can be compared to a MAYDAY call.

The procedure below is the same on the SAILOR 6006 Message Terminal as on the SAILOR 6101/6103 Alarm Panel.

To send a Distress Alert, do as follows:

- Open the cover for the Distress button.
- Press and hold the button until the light is steady and the buzzer stops (more than 3 seconds).



During this time the button light flashes and the buzzer sounds. After 3 seconds the red light goes steady on and the buzzer is silent. The display shows that the message is being sent.



The display also shows when the Distress Alert is acknowledged from the LES. Write down the LES number - you must use the same number when you send a Distress message with more information for the MRCC.



The below table shows the behaviour of the Distress button on the SAILOR 6006

Behaviour	Meaning
Button light flashes, buzzer sounds	The Distress button is pressed. Hold until light and sound changes (more than 3 seconds).
Button light constant, buzzer is silent	The Distress Alert is being sent (normally within 10 to 30 seconds)
Button light shortly off every 15 seconds	The Distress Alert is confirmed

Important

The MRCC normally sends a message to the alerting unit to gather more information about the situation.

If at all possible, respond to such messages with a Distress message sent to the same LES that was used for the Distress Alert.

The LES used for the Distress Alert is shown in the Distress popup windows. An example is shown in the previous page.

For information on how to send a Distress message, see *Writing a Distress* priority message on page 28.

The MRCC may also send Distress EGCs to other ships in the area to request assistance (typically as Distress Relay or SAR Coordination request).

See also Changing the Distress Alert settings on page 63.

Clearing distress indications

If you want to turn off all distress indications while a Distress Alert is still active. do as follows:



Note This function will only turn off the visual and audible indications on board. It will not cancel the transmission of the Distress Alert.

- On the SAILOR 6006, select Distress.
- 2. Select Status.



3. Select Clear distress indications.

Overview of SAILOR 6006 Message Terminal

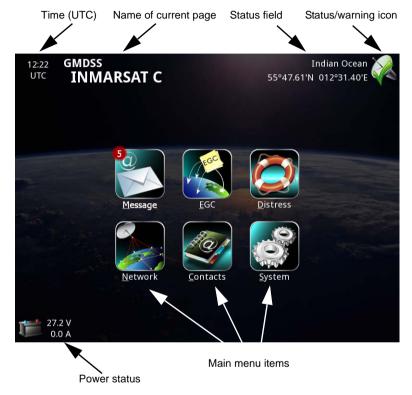
Buttons in the front panel

The buttons in the front panel have the following functions:

Control	Function
Distress	The Distress button is used to send a Distress Alert through the connected SAILOR 3027 terminal. See <i>Sending a Distress Alert</i> on page 20.
Test	The Test button is used to test the lights and sound in the buttons on the SAILOR 6006.
Dim	The Dim button is used to dim the light in the SAILOR 6006. Push and hold to dim more/less.
	Each new push changes direction between more and less.
Mute	The mute button is used to mute the SAILOR 6006 and connected equipment, such as alarm panels.
	Without remote on/off: To switch on: Push the button To switch off: Push and hold for 2 seconds
	With remote on/off: To switch on and off: The Power button cannot be used normally; use the remote on/off switch to switch the SAILOR 6006 on and off. To restart the terminal: Push and hold for 2 seconds.

Overview of the screen

Below is an overview of the main screen in the SAILOR 6006.



- Time (UTC): This is the current time of day received with the position data. The presentation format can be changed under System > Settings > Regional settings.
- Name of current page: In each submenu this field shows the name of the page.
- **Status field:** This field shows a short status message next to the Status/warning icon.

• Status/warning icon: This icon can show:



Status OK



Warnings pending



Critical error pending

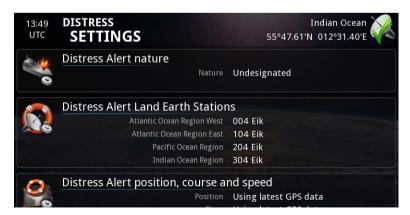
For details of warnings and errors, see Information of events on page 94.

- Main menu items: Select these items to access the submenus. For an overview of the menu system, see Menu overview in the next page.
- · Power status: Shows a short status of the backup battery.

Navigating the user interface of the SAILOR 6006

To navigate and select items in the user interface you can do one of the following:

Touch screen: Select items by touching them with your finger on the screen of the SAILOR 6006. Items in a grey frame such as in the example below can be selected by touching anywhere within the frame.



Keyboard: Use the tab and arrow keys to navigate through items and press **Space** to select them. When an item has an underlined letter, you may type Alt + <the underlined letter> to select the item, e.g. type Alt+S to select the <u>System menu from the main screen</u>.

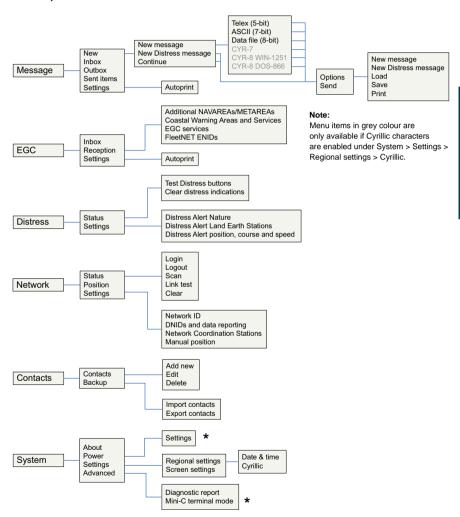
To sort a list

In lists, such as the message Inbox or the Contacts list, you can sort the list by selecting the heading of the column you want to sort by. E.g. to sort the names in the Contacts list, select Name. Select it again to toggle between ascending and descending order.



Menu overview

The below drawing shows an overview the menu system of the SAILOR 6110 system.



The items in the menu overview are described in the following sections. Items marked * are described in the installation manual for the SAILOR 6110 system.

Working with messages

Writing a Distress priority message

Note

Distress priority messages are sent to the MRCC only.

Distress priority messages must be written in English.

To write a Distress priority message, do as follows:

1. From the main menu, select Message.



2. At the bottom of the page, select **New** and then select **New** <u>Distress</u> message.



A popup window appears.



3. Read the message and select Yes.



The Distress message editor opens.

- 4. Use a keyboard to type your message text, or touch the screen and select the soft keyboard that appears in the top right corner of the display. The text must be in English. Note that Cyrillic characters cannot be selected for a Distress message.
- 5. When the message is ready to be sent, select **Send**.



A popup window appears.



Select the LES to be used for sending the message, or use the already selected LES.

Important

The LES for the Distress priority message must be the same as the LES used from the start of the ongoing communication session.

7. Select Send.

You get a message saying: "Message scheduled for transmission", and later: "Distress message initiated".



8. Select **OK**. The message is sent as soon as the network allows it.

Note Distress priority messages are sent to the MRCC only.

When the message is acknowledged you get a popup message.

You can also check the status of your message in the Outbox and Sent Items.

The message is moved from the Outbox to Sent items when it is sent, but it may not have been acknowledged yet. This is indicated by a question mark as shown below.



When the question mark changes to a check mark, the message has been acknowledged.



Writing a routine priority message

Note

You can enable the use of Cyrillic characters under **System > Settings** > **Regional settings > Cyrillic**. With Cyrillic characters enabled, you can change the keyboard to a Cyrillic keyboard for use in your message. For details, see *Using Cyrillic characters* on page 60.

To write a routine priority message, do as follows:

1. From the main menu, select Message.



2. At the bottom of the page, select **New**.



3. If you just want to type your text in the editor without changing the encoding, select **Continue**, skip the next 2 steps and go to step 6.



4. If you want a different encoding of the message, select **New message** instead of <u>Continue</u>. Then select the encoding you want.

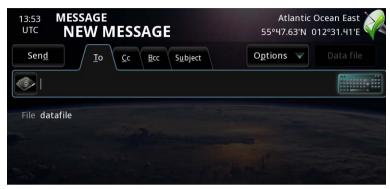


Note

You can also change the encoding at a later stage by selecting the encoding in the top right corner of the message page and then select what you want to convert to.

If you have enabled Cyrillic characters, the encoding types for Cyrillic characters also appear in the list. For details, see *Using Cyrillic characters* on page 60.

If you want to send a data file in stead of typing in text, select New
message > Data file (8-bit), browse to the file you want to send and select
it. The filename appears in your message. Continue to step 7.



6. Use a keyboard to type your message text, or touch the editor field and select the soft keyboard in the top right corner of the display.



Note

If you want to save your message without sending it, you can save it as a file. See the next section *Options for writing and* sending messages on page 39.

7. Select the tab page **To...** and then select the Contacts icon.



8. Select the recipient(s) of the message from the Contacts¹ list. Then select **OK**.



If you select more than one recipient, the address type must be the same for all recipients. The system does not support different address types for one message.



^{1.} For information on how to edit the Contacts list, see *Managing the list of Contacts* on page 50.

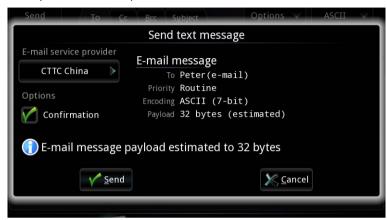
9. Select the tab page CC or BCC at the top of the message editor if you want someone to receive a copy of the message. Then select or type in the recipient(s).



- 10. Select the tab page **Subject** and type a subject or title for your message.
- 11. When the message is ready to be sent, select **Send**.



12. Select the service provider to be used for sending the message, or use the already selected service provider.



- Note Thrane & Thrane does not take responsibility for the correctness of the estimated payload for your message.
- 13. If you want confirmation when your message is received, select **Confirmation**.
- 14. Select Send.

You get a message saying "Message scheduled for transmission". Select **OK**. The message is sent as soon as the network allows it.

Options for writing and sending messages



The **Options** menu in the right side of the **New message** page offers the following options when writing a message:

New message

- Telex (5-bit). Select this option if you want the message to be as small (and fast) as possible. Note that no special characters can be used, and all letters are converted to capital letters.
- ASCII (7-bit). Select this option if size and speed are not very important and/or you want to be able to use special characters and small letters.
- Data file (8-bit). Select this option if you want to send a data file instead of writing text in the editor.
- If Cyrillic characters are enabled, you get some extra options. See *Using Cyrillic characters* on page 60.

New <u>D</u>istress message

Opens the Distress message editor so you can write a Distress message.

Load

Allows you to browse for a text file to load into the message editor.

Save

Allows you to browse to or type in a location where you can save your message to a file. If, for example, you have written a draft message that you want to send later, you can save the message and then load it back into the editor when you want to send it.

Print

Prints the text in the message editor on the connected printer.

Viewing messages in the Inbox

The Message icon in the main menu shows how many unread messages are in the Inbox



The Inbox can hold 1000 messages. The oldest messages are automatically deleted when this limit is exceeded.



To view the messages in the Inbox, do as follows:

1. At the bottom of the MESSAGE page, select Inbox.



In front of each message one of the following icons is shown:



The message is unread



The message has been read



Distress priority message (unread)



Distress priority message (read)

Apart from the icons, the Inbox shows:

- the name of the sender if listed in your Contacts, otherwise the e-mail address or number of the sender. If neither is known: "No address".
- the subject, if any.
- the time and date of the message.
- Note

You can sort the Inbox by selecting the top of the column you want to sort by.

2. Select the message you want to read.

For information on how to delete, print or save messages, see *Printing*, saving or deleting EGCs or messages on page 46.

Viewing messages in the Outbox

To view messages in the Outbox, click **Outbox** at the bottom of the **MESSAGE** page.



The Outbox holds messages that are scheduled for transmission, but have not yet been sent.

Select a message to see the contents.

Viewing Sent items



Sent items can hold 1000 messages. The oldest messages are automatically deleted when this limit is exceeded.

To view your sent messages, click **Sent Items** at the bottom of the **MESSAGE** page.



The Sent Items page shows all messages that have been sent from the SAILOR 3027, including Distress messages.



You can sort the list by selecting the top of the column you want to sort by.

Select a message to see the contents.

The icon next to the message can show the status of the message:



Sent Distress message is not yet acknowledged.



Sent Distress message is acknowledged.



Only if Confirmation is requested: Sent message is not yet acknowledged.



If Confirmation is requested: Sent message is acknowledged. If Confirmation is not requested: Message is sent.

Receiving EGCs

Viewing incoming EGCs

Note

You can receive various types of EGCs in the SAILOR 6006. For details about how to set up which EGCs to receive and which EGCs to print, see *Changing the EGC settings* on page 67.

The SAILOR 6006 shows incoming EGCs.



The EGC Inbox can hold 1000 EGCs. The oldest EGCs are automatically deleted when this limit is exceeded.

To view EGCs, do as follows:

1. Select **EGC** from the main menu.



2. Select **Inbox** (may already be selected).



Apart from the time and date of the EGC, the list of incoming EGCs can show the following icons:



SafetyNET EGC. Meteorological warning, navigational warning, coastal warning and meteorological forecast.



SafetyNET EGC. Shore to ship Distress Alert and search and rescue coordination



FleetNET EGC



System EGC



Default EGC. Only used if the EGC type is unknown.

The status of each EGC is shown with one of the below icons:



The EGC is unread



The EGC has been read



Distress or Urgent priority EGC (unread)



Distress or Urgent priority EGC (read)

3. Select an EGC to see the contents.



You can sort the EGC Inbox by selecting the top of the column you want to sort by.

For information on how to delete, print or save EGCs, see *Printing, saving or deleting EGCs or messages* on page 46.

Printing, saving or deleting EGCs or messages

Use the tools symbol to print, delete or save EGCs or messages. You can use the tools symbol from within an EGC or message or from the list of EGCs or messages (Inbox, Outbox or Sent items).

From the Inbox, Outbox or Sent items

To delete or save messages or EGCs from the Inbox, Outbox or Sent items, do as follows:

- 1. Click in the lower left corner of the display.
- Select the messages or EGCs you want to delete or save.
 You may use Select all to select all items or Clear all to remove all selections.
- Select **Delete** to delete the selected messages or EGCs or **Save** to save the selected messages.

From within a message or an EGC

To delete, print or save a message or EGC, do as follows:

- 1. Select the message or EGC you want to delete, save or print.
- 2. Select in the corner of the display.
- 3. Select Delete. Print or Save.

Network status

The top right corner of the display shows a short text about the current status.



To view a more detailed network status, do as follows:

- 1. Select **Network** from the main menu.
- 2. Select **Status** at the bottom of the page.



Logging into and out of the network

To log into the Inmarsat C network, select **Login** from the lower left side of the **NETWORK STATUS** page and select the region you want to log into. If you just want to use the region with the best signal, use Scan instead (see the next section).

To log out of the network, select **Logout** from the lower left side of the **NETWORK STATUS** page and select **OK**.

Scanning the network

If you want the system to select the ocean region with the best signal, select **Scan** in the **NETWORK STATUS** page. The system will then scan for the best signal and log into that ocean region. Note that the scanning process may take a long time, because all ocean regions are scanned.

Clearing the current protocol

If you want the system to immediately stop transmitting, select **Clear** in the **NETWORK STATUS** window.

The current protocol is then cleared, and any ongoing transmission is stopped.

Link test



To test basic system connectivity, we recommend that you send a short message to yourself instead of using the link test. For details on how to send a message, see *Writing a routine priority message* on page 33.

Because the link test has low priority in the network, it takes a long time for the system to complete the test, and during this time the system has limited functionality. If you still want to run a link test, first make sure the SAILOR 3027 is properly commissioned and logged in. The top right corner of the Message Terminal display shows the status.

To run a link test using the Message Terminal, do as follows:

- In the Message Terminal display, select Network > Status > Link test...
 The Link test window shows the result of the latest link test if any.
- 2. Select Perform link test.
- 3. Select Yes.

A window shows **Link test in progress**. When the test is complete, the window shows the results of the test.

4. Select **OK** to exit the Link test window.

Managing the list of Contacts

To manage your list of contacts, select Contacts from the main menu.



The list of Contacts opens.



For each contact you can see the type and address.

From the bottom of the Contacts list you can add, edit or delete selected contact(s)

You can also access and manage your Contacts from within a message, by selecting the Contacts icon from the To... tab.

To add a new contact

Do as follows:

1. At the bottom of the CONTACTS list, select New.



- 2. Type in the name of your contact.
- 3. Select the Address type from the drop-down list.
- 4. Type in the details for your contact. The format of the address/number depends on the selected address type. See the table on the next page.
- 5. Select OK.

The list is updated with the new contact.

Message formats and presentation:

Туре	Format of number	Example	Presentation
E-mail	Standard e-mail address	info@thrane.com	5, 7 or 8 bit
Telex	Country code + subscriber no.	0045 99999999	5 or 7 bit
Fax	Country code + subscriber no.	0045 99999999	5, 7 or 8 bit
Inmarsat-C mobile	Mobile number	492388999	5, 7 or 8 bit
PSTN modem	Country code + subscriber no.	0045 99999999	5, 7 or 8 bit
Special access code	Predefined codes: • 32 - Medical Advice • 33 - Technical Assistance • 38 - Medical Assistance • 39 - Maritime Assistance • 41 - Meteorological Reports • 42 - Navigational Hazards and Warnings • 43 - Ship Position and Sail Plan Reports	32	5, 7 or 8 bit
X.25	DNIC (country code) + subscriber no.	2380 99999999	5, 7 or 8 bit

To edit a contact

Do as follows:

- 1. In the Contacts window, select the contact you want to edit.
- 2. Select Edit.



- Edit the details.
 See the previous section for information on the contact details.
- 4. Select OK.

To delete a contact

Do as follows:

- 1. In the **Contacts** window, select the contact(s) you want to delete.
- 2. Select Delete.
- 3. Select Yes to confirm.

Power status

The bottom left corner of the display shows a short status of the backup battery.

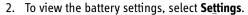


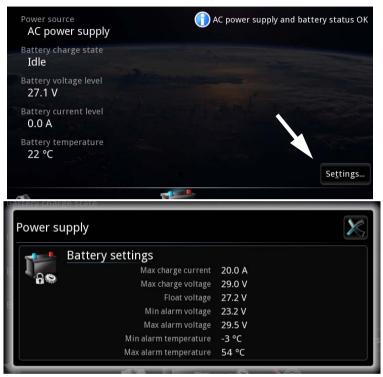
- Negative current means the battery is supplying power.
- Red numbers mean that the values are outside normal operating range.

For a more detailed power status, do as follows:

1. Select the battery symbol in the bottom left corner or select **System** from the main menu and then **Power** at the bottom of the page.







Important

The default battery settings are suitable for most installations. Do not change these settings unless you have a special battery type or installation that requires different settings. Only skilled personnel should change the power settings, which are password protected. Refer to the installation manual for the SAILOR 6110 system for details.

Viewing system details

To see the type and software version of the units in the system, do as follows:

- 1. Select **System** from the main menu.
- 2. Select **About** at the bottom of the page.

This page shows name, serial number and software version of each system unit. It also shows whether the system is a primary or duplicated system.



Select one of the units to see more details.



Changing regional settings and night mode

1. Select **System** from the main menu.



2. Select **Settings** at the bottom of the page.



Changing the date and time settings

To change how date and time is displayed in the message terminal, do as follows:

1. Select Regional settings from the SYSTEM SETTINGS page.



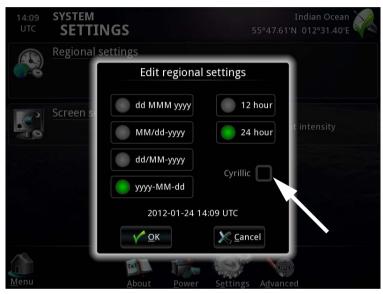
2. Select the format for date and time and select **OK**.

Using Cyrillic characters

Enabling Cyrillic characters

To enable the use of cyrillic characters in messages, do as follows:

1. Select Regional settings from the SYSTEM SETTINGS page.



2. Select Cyrillic and then OK.

To use Cyrillic characters

When Cyrillic characters are enabled, you can change your keyboard to a Cyrillic keyboard for use in the message editor.



The physical keyboard and the on-screen keyboard are independent of each other. What you set up in one keyboard will not affect the other one.

- 1. First select the encoding you need. You can do this either
 - when you start a new message (Message > New message)
 - from the message editor (Options > New message)
 - from the message editor under the encoding format in the top right corner, as shown below.

There are currently three encoding formats for Cyrillic characters.

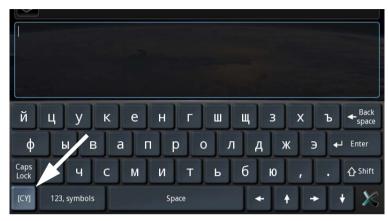


- 2. After selecting the encoding:
 - If you are using a physical keyboard:

 Press Alt + Shift on the keyboard to toggle between Cyrillic and latin characters.
 - If you are using the on-screen keyboard in the message editor:

 Touch the screen and then touch the keyboard symbol that appears in

the message editor. To toggle between Cyrillic and latin characters, touch **[CY]** in the bottom left corner of the on-screen keyboard.



Changing the ambient light limit for night mode

To change the light intensity at which the screen should enter night mode, do as follows:

1. From the **System > Settings** menu, select **Screen settings**.



- 2. Use the arrows or select and drag the pointer until the right light intensity for shifting to night mode is achieved.
- 3. Select OK.

The screen will automatically shift to night colours when the ambient light intensity falls below the selected limit.

Changing the Distress Alert settings

You can temporarily change the settings for your Distress function.



The Distress Alert Nature and the Distress Alert Position, Course and Speed settings are only valid for the current Distress Alert or maximum one hour. Then these settings are returned to the default settings.

The entered Distress LESs remain in the system.

Default settings:

- · Distress Alert Nature: Unspecified
- Distress Alert Land Earth Stations: 0, 0, 0, 0
 ("0" means the LES is automatically selected by the SAILOR 3027).
- Distress Alert Position, Course and Speed: Using latest GPS data

Distress Alert nature

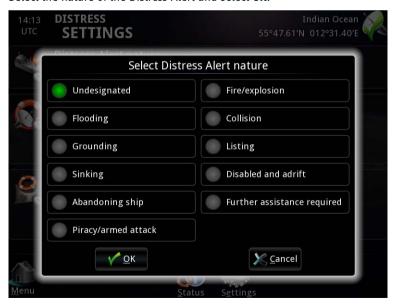
To change the announced nature of the Distress Alert, do as follows:

1. From the main menu of the SAILOR 6006, select **Distress**.

2. Select Settings.



- 3. Select Distress Alert nature.
- 4. Select the nature of the Distress Alert and select **OK**.



Distress Alert Land Earth Stations

Default setting: 0, 0, 0, 0

To change the LESs to be used for the Distress Alert, do as follows:

- From the DISTRESS SETTINGS menu, select Distress Alert Land Earth Stations.
- 2. Type the LES number for each Ocean Region.



3. Select OK.

Distress Alert position, course and speed

Default setting: Use GPS position.



Do not change this setting unless you have good reasons to do so. It is normally best to show your current GPS position when sending a Distress Alert.

You may need to change the position, e.g. if the person(s) that need help are no longer on board the ship (man overboard).

To change the position, course and/or speed to manually entered values, do as follows:

- From the Distress Settings menu, select Distress Alert position, course and speed.
- 2. Select Use manual position.



3. Type or select the new values and select \mathbf{OK} .

Changing the EGC settings

Reception of EGCs

To change the settings for reception of EGCs, do as follows:

- 1. From the main menu, select EGC.
- 2. Select Reception.



 To change the additional areas from which you want to receive meteorological or navigational EGCs, select Additional NAVAREAS /METAREAS.

Then select or type in the numbers of the areas from which you want to receive EGCs, and select **OK**.



You always receive EGCs from the area in which you are located. The areas selected here are additional areas.

- 4. To change the Coastal Warning Areas and services, select **Coastal Warning Areas and Services**. Then type in the new area and select the services you want to receive. Then select **OK**.
- 5. To change the types of EGC service you want to receive, select **EGC services**. Then select the EGC services you want to receive and select **OK**.
 - Note Some SafetyNET EGCs cannot be disabled due to IMO SOLAS regulations.



6. To enable or disable your FleetNET ENIDs, select **FleetNET ENIDs**, then select the ENIDs you want to enable or disable and select **OK**.



FleetNET ENIDs are the EGC Network IDs for the FleetNET groups or networks of which the vessel is a member.

Automatic print of EGCs

You can set up the SAILOR 6006 to automatically print certain types of EGC. Do as follows:

1. From the bottom of the EGC page, select Settings.



- 2. Select Auto print received EGCs.
- 3. Select the types of EGC you want to print automatically and select **OK**.



Note

SafetyNET urgency + distress EGCs cannot be disabled - they are automatically sent to the printer.

Changing the Message settings

Automatic print of messages

You can set up the SAILOR 6006 to automatically print certain types of messages. Do as follows:

- 1. From the main menu select Message.
- 2. Select Settings.



3. Under **Auto print received messages**, select **Routine** if you want to print Routine messages automatically when they arrive.



Automatic print cannot be disabled for Distress messages.



4. Select OK.

Changing the Network settings

Network ID

Setting the mobile number in the SAILOR 3027

After registration, the Inmarsat mobile number (network ID) must be set up in the SAILOR 3027. Do as follows:

- 1. From the main menu of the SAILOR 6006 select **Network**.
- 2. Select Settings.



3. Check that the mobile number listed under Network ID matches the mobile number in the documentation from your airtime provider.



4. If the mobile number is not correct, select **Network ID** and change the number.



5. When the number is correct select **OK**.

DNIDs and data reporting

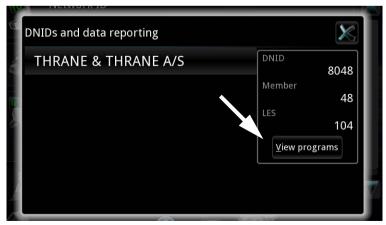
DNIDs (Data reporting Network IDentification) are used for position reporting and data reporting. The DNIDs for a terminal must be created on a LES and downloaded to the terminal. When a DNID is downloaded to the SAILOR 3027 GMDSS Terminal, the terminal will send reports to a mail box on the LES according to the programs defined for the DNID. The mini-C GMDSS supports 64 DNIDs. For further information, see *Position reporting* on page 9 and *Data reporting and polling* on page 10.

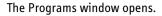
You can see the DNIDs and their associated programs in the Message Terminal. Do as follows:

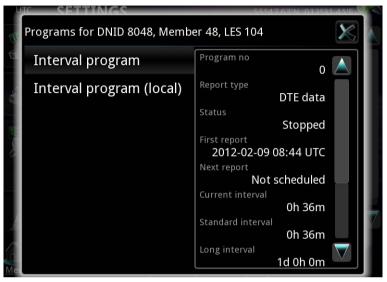
1. From the **NETWORK SETTINGS** page, select **DNIDs and data reporting**.



2. To see the program(s) associated with a DNID, select the DNID and select **View programs**.

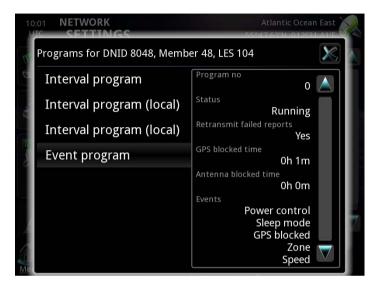






- 3. Select the program you want to see.
 - In the right side of the Programs window you can see information about the selected program. The programs can be:
 - Interval programs instructing the GMDSS Terminal to send reports at regular intervals. The Interval programs are mostly remote programs, but may also be programs managed and defined locally, e.g. with a terminal program.

Event programs instructing the GMDSS Terminal to send reports when certain events occur.



Network Coordination Stations

Adding Network Coordination Stations

If you need to add a Network Coordination Station (NCS), do as follows:

1. In the NETWORK SETTINGS page, select Network Coordination Stations.



2. Select New.



- 3. Type in the ID and channel number of the new NCS.
- 4. Select OK.

Editing Network Coordination Stations

If you need to edit the information for a Network Coordination Station (NCS), do as follows:

- 1. In the **NETWORK SETTINGS** page, select **Network Coordination Stations**.
- 2. In the left column, select the NCS you want to edit.
 - Note 044, 144, 244 and 344 cannot be edited nor deleted.
- 3. Select **Edit** in the right side of the page.



4. Change the ID and channel number as needed.



5. Select OK.

Position

To view your current position, course and speed, select **Network** from the main menu, and then **Position** at the bottom of the page.



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Entering a manual position

If there is no synchronization with the positioning system, you can enter a manual position. To enter a manual position, do as follows:

1. Under **Network** select **Settings** at the bottom of the page.



2. Select Manual position.



Position 79

- 3. Enter the current position data, course, speed and UTC time.
- 4. Select OK.

The manually entered position data will be used by the system until the automatic position data is available again.

80 Position

Testing Distress buttons in the system

With the SAILOR 6006 you can test all **Inmarsat C** Distress buttons connected in your SAILOR 6110 system.

To test the Inmarsat C Distress buttons in the system, do as follows:

1. In the Message Terminal display, select **Distress**.



2. Select **Status** at the bottom of the page.



3. Select Test Distress buttons.

The test is initiated.



Wait until the following window appears.

Important

Before pressing any Distress buttons, make sure the display of the SAILOR 6006 shows Test in progress.

Otherwise you may accidently send a real Distress Alert!



As long as the **Test in progress** window is showing, you can use Distress buttons connected to the system under test, without sending a real Distress Alert.

Note

Before pressing any Distress buttons, check the units as follows:

- On the alarm panel, make sure the display shows "Test" next to the Inm C unit that is active (marked with a bullet), before pressing the Inm-C Distress button.
- On the Message Terminal, make sure the display shows "Test in progress" before pressing the **Distress** button on the Message Terminal.

 Test the Inmarsat C Distress buttons on the connected units and on the Message Terminal by pressing them as you would in a real Distress situation.

Important

Only **Inmarsat C** Distress buttons are included in this test. **Do not** press any other Distress buttons, unless it is a distress situation!

The light and buzzer in the Distress buttons should work the same way as in a real Distress situation. For details on the Distress buttons, see *Sending a Distress Alert (SAILOR 6150 only)* on page 60.

5. When you have finished testing, or you need to send a real Distress Alert, press **Cancel** in the **Test in progress** window.



Using the SAILOR 1252 Printer

In the SAILOR 6110, the printer is primarily used to print EGCs and Safety messages from the SAILOR 6006.

For information on how to print EGCs and messages, see *Printing*, saving or deleting EGCs or messages on page 46 and Automatic print of EGCs on page 69.

Printer indications in SAILOR 6006

The SAILOR 6006 Message Terminal shows a warning if:

- · the printer is not connected
- the printer is out of paper
- · the paper is low
- · there is an error in the printer
- · the printer is off-line

Front panel

The below drawing shows the front panel of the SAILOR 1252 Printer.



The next pages describe the functions of indicators and buttons on the printer front panel.

Indicators

The below table shows the function of each indicator.

Indicator	Behaviour	Function
SELECT	Constant light	Printer is on-line
	Off	Printer is off-line
	Flashing, and ALARM is off	Printer is in sleep mode
	Flashing, and ALARM is on	Fault
ALARM	Constant light, and SELECT is off	Out of paper or paper jam (Cut sheet feeder only)
	Constant light, and SELECT is flashing	Fault
	Flashing, and SELECT is on	Printhead temperature protection circuit, firmware protection of line feed or space motor is operating. Normal print operation will resume after a cooling period.
POWER	Constant light	The printer is connected to the supply and is switched on.
PITCH		Shows the current character pitch selected.
MODE		Shows the current print mode selected - NLQ, Utility, HSD (HSD is SSD if 12cpi is selected).

Buttons

Normal functions

Indicator	Normal function	
LINE FEED	Advances the paper one line for each press.	
FORM FEED	Advances the paper to the next top of form (TOF) or ejects any single sheet paper from the printer.	
TOF SET	Sets new top of form position.	
SELECT	Sets printer on-line or off-line	
PITCH	Changes the character pitch setting (cpi)	
MODE	Changes the print style setting.	

Additional functions if pressed at power on

Indicator	Function if pressed at power on	
SELECT	Enters the printer's Menu Mode.	
TOF SET	Selects the print pitch as 17cpi.	
LINE FEED	Initiates the printer self test.	
SELECT and LINE FEED	Initiates the printer's continuous rolling ASCII test.	
SELECT and FORM FEED	Prints all data and control commands received as HEX codes for fault finding.	

Service

This chapter gives guidelines for updating software and for troubleshooting and provides an overview of the different means of status signalling. It has the following sections:

- Getting support
- Updating software
- Troubleshooting guide
- Status signalling

Getting support

If this manual does not provide the remedies to solve your problem, you may want to contact your Airtime Provider or your local distributor.

To help with the troubleshooting, please generate a diagnostic report as described in the next page, and enclose the diagnostic report file when asking for support.

Airtime support

If you need assistance from your Airtime Provider, check your Airtime subscription documents for a contact number to call.

System support

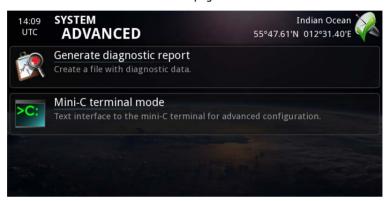
If you need assistance with problems caused by one of your system units, please call a distributor in your area.

A list of certified partners and distributors is available on Thrane & Thrane's web site: www.thrane.com. Select Maritime and select Where to buy from the top menu bar.

Generating a diagnostic report

To generate a diagnostic report, do as follows:

- Select System.
- 2. Select **Advanced** at the bottom of the page.



- 3. Select Generate diagnostic report.
- 4. Choose the location where you want to save the file. You can save the file to a USB memory stick connected to the Message Terminal.

Updating software

Before updating software

Tool for software update

To update software in the SAILOR 6110 system units (e.g. the GMDSS Terminal, the Message Terminal and/or the Alarm Panel), use the TMA (ThraneLINK Management Application). For information on how to install the TMA, see the next sections.

The ThraneLINK Management Application

The ThraneLINK Management Application (TMA) is a Windows program that provides monitoring and software update of connected Thrane & Thrane devices with ThraneLINK support. The devices must be on the same LAN.



Installing the TMA

PC requirements

- Standard PC with Windows 7 or Windows XP and Ethernet
- Make sure that you have administrator rights for the PC.

Installation

To install the TMA, do as follows:

1. Go to **www.thrane.com** > **Downloads**, locate the TMA software package and download it to your PC.

- 2. Extract the files from the zip file.
- Click setup.exe to start the installation wizard.
 If a Windows Security Alert pops up click Allow access (Windows 7) or Unblock (Windows XP).
- 4. Follow the instructions in the wizard.

When the wizard is complete, a TMA icon appears on your PC desktop. You can also find the TMA under Programs > Thrane > TMA.



If you have problems with your Firewall settings, please refer to the TMA quick quide, also available at www.thrane.com > Downloads.

Updating software with the TMA

To update software in a ThraneLINK product, do as follows:

- 1. Connect the PC to the LAN with the Thrane & Thrane products for which you want to update software.
- 2. Click the TMA icon on the PC's desktop. The program starts and displays the ThraneLINK products found on the network.
 - If a Windows Security Alert pops up click **Allow access** (Windows 7) or **Unblock** (Windows XP).
- 3. Insert a USB memory stick with the new software version into a USB connector in the PC. $^{\rm 1}$
 - The TMA automatically discovers the new software version(s) and a software update icon flashes next to the unit(s) for which the software can be installed.



4. From the main page of the TMA, select the product you want to update.

If the new software is not on a USB stick, you can point to the location of the software by selecting the tool icon in the Software update page and entering the location of the software.



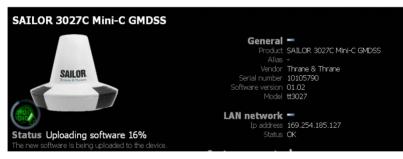
5. Select **Software update** at the bottom of the product page. Check that the new software version is correct.





6. Select Update.

The progress of the software update is shown in percent under the product icon. When installation is completed, a check mark appears instead.





Troubleshooting guide

The below table provides information on some of the problems that might occur, including possible causes and remedies to solve the problems.

Problem	Possible cause	Remedy
The system cannot be switched on.	The SAILOR 6006 has a remote on/off switch, so the power button is disabled.	If the SAILOR 6006 is using a remote on/off switch, use that instead of the power button.
	There is no power on the input to the SAILOR 6006.	Check that all power cables between the ship power source and the SAILOR 6006 are connected correctly, and that the power source is on.
The Message Terminal cannot switch off.	Software error	Push and hold the Power button for 10 seconds, or reboot via the power cable.
There is no signal or weak signal from the satellite.	The view to the satellite is blocked, or there is a hardware problem.	Make sure the SAILOR 3027 has a clear view in all directions. See the installation manual for details.
		If the view is not blocked, check the error log. If the problem persists, contact your local distributor.
	The system is set up to use one specific satellite, but the system is outside coverage from that satellite.	Log into a satellite that covers your area.
No connection between SAILOR 6006 and SAILOR 3027	The CAN cables between the SAILOR 3027 and the SAILOR 6006 are damaged or are not properly connected.	Make sure the CAN cables are properly connected and that the cables and connectors are not damaged.

Problem	Possible cause	Remedy
No battery information in the SAILOR 6006	The Ethernet connection from the power supply is not working.	Check the Link activity indicator at the connection points in the Ethernet switch.
		Check that the Ethernet cables are connected correctly and are not damaged.
No connection between SAILOR 6006 and printer	The USB cable is damaged or is not connected properly.	Check that the USB cable is connected correctly and is not damaged.
The Message Terminal shows "out of paper" although there is paper in the printer.	The paper is not placed correctly in the printer.	Adjust the paper to the left side of the printer.
The units in the mini-C GMDSS do	The computer running the TMA is set up with a fixed IP address that does not match the local network with the mini-C GMDSS units.	Enable DHCP on your computer.
not appear in the TMA (Thrane Management Application).		If you need to have a fixed IP address on your computer, there must be a DHCP server in the network, and the IP address of your computer must be within the range provided by the DHCP server.

Status signalling

The SAILOR 6006 can show basic status and error messages. When an error occurs in the system, check the SAILOR 6006 for information first.

The SAILOR 1252 Printer also has some status LEDs. For further information see *Using the SAILOR 1252 Printer* on page 84.

Status information in SAILOR 6006

The upper right corner of the display shows the most important status information. You can also enter the individual pages from the main menu to see more detailed status information.

Information of events

Popup windows

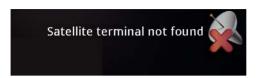
When an event requires your attention, a popup window appears.

Example:



When you have read the text, select **OK** to close the window.

If the window indicates an error that requires your action, the warning or error icon will stay in the top right corner of the display as long as the problem persists.



List of active warnings and errors

The top right corner of the display shows a short text about the current status. The icon in the corner can change depending on the situation.



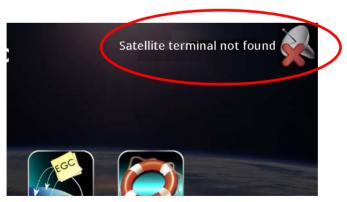
Green check mark: The system is logged in and there are no errors or warnings.



Warning triangle: A warning is pending. Select the icon or press F1 to see a list of active warnings and errors.



Red cross: A critical error is present. Select the icon or press F1 to see a list of active warnings and errors.



From the list of active warnings and errors you can access the event log.

Event log

From the list of active errors or warnings, you can select **Event log** to see a complete list of events. The list holds 100 events, including

- Errors
- Warnings
- Informational events
- Cleared warnings and errors.

Service and repair

Should your Thrane & Thrane product fail, please contact your dealer or installer, or the nearest Thrane & Thrane partner. You will find the partner details on thrane.com where you also find the Thrane & Thrane Self Service Center web-portal, which may help you solving the problem.

Your dealer, installer or Thrane & Thrane partner will assist you whether the need is user training, technical support, arranging on-site repair or sending the product for repair.

Your dealer, installer or Thrane & Thrane partner will also take care of any warranty issue.

Repacking for shipment

Should you need to send the product for repair, please read the below information before packing the product.

The shipping cartons for the SAILOR 6110 system have been carefully designed to protect the equipment during shipment. The cartons and their associated packing material should be used when repacking for shipment. Attach a tag indicating the type of service required, return address, model number and full serial number. Mark the carton "FRAGILE" to ensure careful handling.



Note | Correct shipment is the customer's own responsibility.

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Version 2, June 1991

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Appendix A: GNU License texts

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990 Ty Coon, President of Vice C

CAN Controller-Area Network. A message based protocol designed to

allow microcontrollers and devices to communicate with each

other within a vehicle without a host computer.

E

EGC Enhanced Group Call. A type of broadcast data for ships.

ENID EGC Network Identification. An identification code for a group of

EGC receivers. When an EGC message is sent using the ENID, all members of a group with that ENID receive the same message.

G

GMDSS Global Maritime Distress Safety System. The GMDSS system is

intended to perform the following functions: alerting (including position determination of the unit in distress), search and rescue coordination, locating (homing), maritime safety information broadcasts, general communications, and bridge-to-bridge

communications.

GNSS Global Navigational Satellite System

GNU's Not Unix. A Unix-like computer operating system

developed by the GNU project, ultimately aiming to be a

"complete Unix-compatible software system" composed wholly of

free software

GPL General Public License

GPS Global Positioning System. A system of satellites, computers, and

receivers that is able to determine the latitude and longitude of a receiver on Earth by calculating the time difference for signals

from different satellites to reach the receiver.

GT Gross Ton

I

IMO International Maritime Organization. A UN organization

developing and maintaining regulatory framework for shipping. This framework includes safety, environmental concerns, legal matters, technical cooperation, maritime security and the

efficiency of shipping.

IMSO International Maritime Satellite Organisation. An

intergovernmental body established to ensure that Inmarsat

continues to meet its public service obligations.

L

LAN Local Area Network. A computer network covering a small

physical area, like a home, office, school or airport. The defining

characteristics of LANs, in contrast to wide-area networks

(WANs), include their usually higher data-transfer rates, smaller geographic area, and lack of a need for leased telecommunication

lines.

LES Land Earth Station

LGPL Lesser General Public License

M

METAREA The geographic areas in which various governments are

responsible for meteorological warnings.

MRCC Maritime Rescue Coordination Centre

MSI Maritime Safety Information. Maritime Safety Information. An

internationally coordinated network of broadcasts of Maritime Safety Information from official information providers, such as National Hydrographic Offices, National Meteorological Offices, Rescue Coordination Centres (RCCs), and The International Ice Patrol. for Oceanic ice hazards.

N

NAVAREA The geographic areas in which various governments are

responsible for navigation and weather warnings.

NCS Network Coordination Station

P

PSDN Public Switched Data Network

PSTN Public Switched Telephone Network. The network of the world's

public circuit-switched telephone networks. It consists of telephone lines, fibre-optic cables, microwave transmission links, cellular networks, communications satellites, and undersea telephone cables all inter-connected by switching centres which allows any telephone in the world to communicate with any other.

S

SAC Short Access Code

SAR Search And Rescue

SARF Service Activation Registration Form. A form used to register your

mobile equipment for activation of the services you are going to

use.

SOLAS (International Convention for the) Safety Of Life At Sea. Generally

regarded as the most important of all international treaties

concerning the safety of merchant ships.

SSA

Ship Security Alert. The ship security alert system is provided to a vessel for the purpose of transmitting a security alert to the shore (not to other vessel!) to indicate to a competent authority that the security of the ship is under threat or has been compromised.

T

TMA

ThraneLINK Management Application. An application used to monitor and control products connected in a ThraneLINK network.

U

USB

Universal Serial Bus. A specification to establish communication between devices and a host controller (usually personal computers). USB is intended to replace many varieties of serial and parallel ports. USB can connect computer peripherals such as mice, keyboards, digital cameras, printers, personal media players, flash drives, and external hard drives.

UTC

Universal Time, Coordinated. The International Atomic Time (TAI) with leap seconds added at irregular intervals to compensate for the Earth's slowing rotation. Leap seconds are used to allow UTC to closely track UTI, which is mean solar time at the Royal Observatory, Greenwich.

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