

COBHAM

SAILOR 6120/30/40/50

User manual



SAILOR 6120/30/40/50

User manual

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Manufacturer address

Thrane & Thrane A/S, Lundtoftegaardsvej 93 D, DK-2800, Kgs. Lyngby,
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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 A/S 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.).

Dangers de rayonnements micro-ondes

Lors de transmissions, l'antenne émet des rayons micro-ondes puissants. Ce rayonnement peut être dangereux pour les personnes à proximité de l'antenne. Lorsque le système est sous tension, assurez-vous que personne ne s'approche à moins de 0,3 m (1 pi.) de l'antenne, la distance de sécurité minimale recommandée.

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 SAILOR 3027 mini-C terminal.

About the manual

Naming conventions

This manual covers four different types of system. For information that applies to all four types, the following naming conventions are used:

Common name	Used for
mini-C system	SAILOR 6120 SSA System SAILOR 6130 LRIT System SAILOR 6140 Maritime System SAILOR 6150 Non-SOLAS System
SAILOR 3027	SAILOR 3027 SSA Terminal SAILOR 3027 LRIT Terminal SAILOR 3027 Maritime Terminal SAILOR 3027 Non-SOLAS Terminal

Intended readers

This manual is a user manual for the SAILOR 6120/30/40/50 systems. The manual is intended for anyone who is using or intends to use any of these four systems. No specific skills are required to operate the mini-C system. 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 and initial configuration, refer to *SAILOR 6120/30/40/50, Installation manual [1]*.

The Message Terminal described in this manual is the **SAILOR 6018** Message Terminal. For information specific to the **SAILOR 6006** Message Terminal, refer to the manuals [5], [6] and [7].

Part numbers for related manuals are listed in the next section.

This manual has the following chapters:

- **Introduction** contains an overview of the mini-C system and a brief description of each unit in the system.
- **Get started** explains how start up the system. It also contains a short guide to the most important functions.
- **To use easyMail** explains how to set up and use the system with the easyMail application from a connected computer.
- **To use Distress and SSA buttons** explains how to use connected Distress buttons and SSA buttons.
- **Service** contains information on software update and a short troubleshooting guide and explains how to check the status of the system.

Related documents

Ref	Title and description	Document no.
[1]	SAILOR 6120/30/40/50, Installation manual (with SAILOR 6018 Message Terminal)	98-154541
[2]	SAILOR 6110 mini-C GMDSS, User manual (with SAILOR 6018 Message Terminal)	98-154172
[3]	SAILOR 6018 Message Terminal, Installation manual	98-150478
[4]	SAILOR 6194 Terminal Control Unit, Installation and user manual	98-131593
[5]	SAILOR 6120/30/40/50, User manual (with SAILOR 6006 Message Terminal)	98-131590
[6]	SAILOR 6120/30/40/50, Installation manual (with SAILOR 6006 Message Terminal)	98-131589
[7]	SAILOR 6006/6007 Message Terminal, Installation manual	98-130088
[8]	Software Interface Reference Manual for the TT-3027C/D/M/LT/SSA mini-C transceiver ^a	98-147405

- a. Only available for certified partners.

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 mini-C system!

With the mini-C system you can send and receive data via satellite through the Inmarsat C network. Four variants of the mini-C system are described in this manual:

- SAILOR 6120 SSA System
- SAILOR 6130 LRIT System
- SAILOR 6140 Maritime System
- SAILOR 6150 Non-SOLAS System

Each of these systems uses its own variant of the SAILOR 3027 mini-C terminal.



This chapter has the following sections:

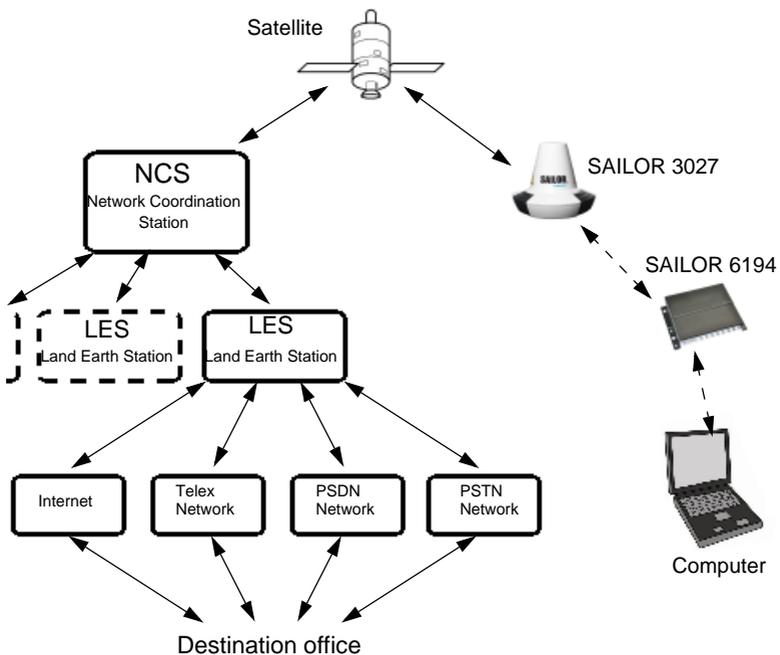
- *System overview*
- *System units*
- *User interfaces*
- *The Inmarsat C services*

System overview

The SAILOR 6120/30/40/50 mini-C system

The Inmarsat C satellite network is the link between the mini-C system 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 LESeS, Land Earth Stations, which handle the transmission between the mobile units and the destination office.



The SAILOR 3027 can work as a standalone system automatically transmitting data on the Inmarsat C network, or you can connect alarm buttons and/or a computer through the SAILOR 6194 Terminal Control Unit.

The SAILOR 3027 can be connected to a SAILOR 6018 Message Terminal, where you can read and write messages and send Distress alerts (SAILOR 6150 only). This communication is transmitted via the SAILOR 3027 to/from the Inmarsat C satellite network.

Scripting

The SAILOR 6194 Terminal Control Unit supports simple scripting, using Lua language. Scripting can be used e.g. for automatically reacting on events registered in the multipurpose input/output pins of the SAILOR 6194. With the Script option you can run custom-designed scripts dedicated to specific applications with the SAILOR 3027.

Typically a script monitors and controls the SAILOR 3027 by using commands via the command shell interface. The scripts are run from an SD memory card installed in the SD card slot of the SAILOR 6194. For further information on scripting, see the manual for the SAILOR 6194 Terminal Control Unit.

System units

The basic mini-C system consists of a power supply and the following units:

- SAILOR 3027 mini-C terminal.
Contains both transceiver, GPS receiver and omnidirectional antenna for the Inmarsat C system. Connects to other equipment, primarily the SAILOR 6194, through a CAN interface carrying both power and bi-directional communication.
- SAILOR 6194 Terminal Control Unit (only included with SAILOR 6120 and SAILOR 6150).
Enables you to connect the SAILOR 3027 with other equipment, such as Distress buttons, SSA (Ship Security Alert) buttons or a computer. The SAILOR 6194 comes with the SAILOR 6120 and SAILOR 6150 systems only, but is available for the other systems as well.



For a more detailed description of the units, refer to the installation manual for the SAILOR 6120/30/40/50 mini-C system and the manuals for the respective units. See *Related documents* on page vi.

User interfaces

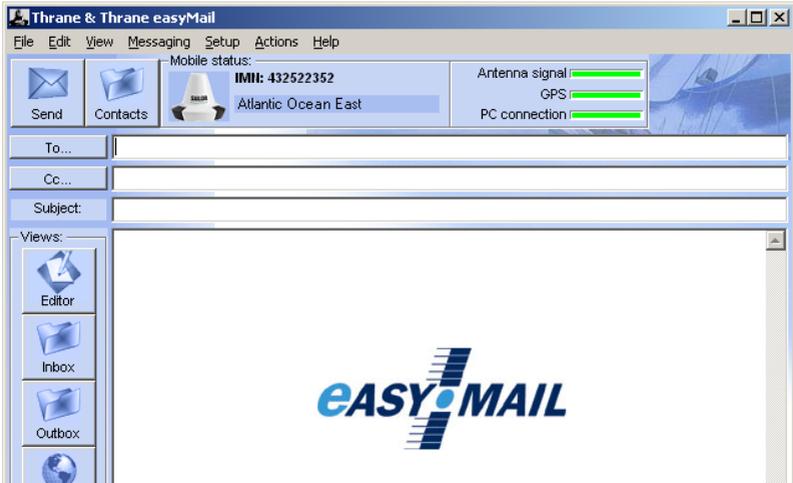
The basic mini-C system does not have a dedicated user interface. To have a user interface you must use one of the following options:

- a SAILOR 6194 Terminal Control Unit and a computer with the **easyMail** application installed. For details, refer to *SAILOR 6120/30/40/50, Installation manual [1]*.
- a SAILOR 6018 Message Terminal connected to the system through the CAN interface. The SAILOR 6018 has a built-in user interface.

For overall system status, diagnostics and live logging you may use the **ThranelINK Management System (TMA)**. For details on the TMA, see the *SAILOR 6120/30/40/50, Installation manual [1]*.

easyMail

easyMail is a user interface for the mini-C system. With easyMail you can send and receive messages, view status and configure the system. To use easyMail you must have a SAILOR 6194 Terminal Control Unit and a computer with the easyMail application installed. For information on how to get started with easyMail, see *easyMail application* on page 14.



For details on how to use easyMail, see *To use easyMail* on page 21.

SAILOR 6018 user interface (for SAILOR 6150)

For the SAILOR 6150 Non-SOLAS system you can use the SAILOR 6018 Message Terminal. With the SAILOR 6018 Message Terminal you can send and receive messages, send Distress alerts, view system status and configure the system.



The SAILOR 6018 has a touch-screen for operating the system. You can also use the SAILOR 6001 keyboard.

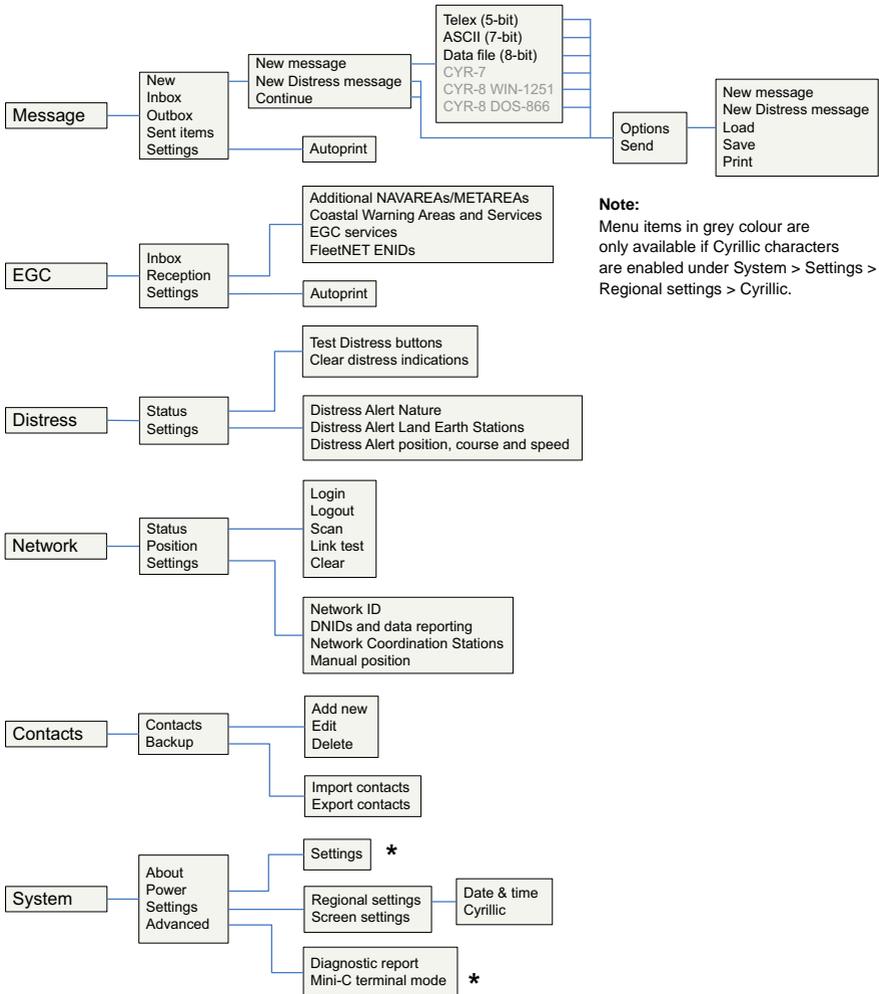


The SAILOR 6018 also has a Distress button, a Mute button, a Power button and a Dim knob. For details on the buttons, see *Buttons in the front panel* on page 23.

For details on how to use the SAILOR 6018, see *SAILOR 6110 mini-C GMDSS, User manual [2]*. To get started with the mini-C system, see *Get started* on page 13.

Menu overview, SAILOR 6018

The below drawing shows the menu system in the SAILOR 6018.



The items in the menu overview are described in *SAILOR 6110 mini-C GMDSS, User manual [2]*.

The Inmarsat C services

The SAILOR 3027 supports the following services through the Inmarsat C system. For a description of these services, see the next sections.

- *Distress alerts and Distress priority messages*
- *Enhanced Group Call (EGC)*
- *Message transmission*
- *Position reports*
- *Data reports and polling*

Distress alerts and Distress priority messages

If a ship or a crew is in grave and imminent danger, the crew can use the SAILOR 6120/30/40/50 to send a Distress alert by pushing a dedicated Distress button.

The alert contains information on the terminal's ID (ID of the SAILOR 3027), addressed LES, date/time of alert, ship's position, course, speed, time of last position update, nature of Distress, flag and speed update.

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 Call (EGC)

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 website at www.inmarsat.com.

Message transmission

Ship to shore: Text and data from the SAILOR 3027 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 10 kb for the SAILOR 3027.

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 mini-C terminal to another.

Position reports

The SAILOR 3027 is integrated with a Global Navigational Satellite System (GNSS) receiver to provide highly reliable, round-the-clock position information of the 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.

The SAILOR 3027 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.

With the SAILOR 3027, the report is sent to a DNID (Data Network Identifier) that is effectively a mailbox created on some LESes. The SAILOR

3027 sends its reports to this mailbox and other tracking systems can then access and empty the mailbox. The SAILOR 3027 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 reports 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 the SAILOR 3027, to shore-based customers.

Polling allows shore-based subscribers to interrogate a single or a group of SAILOR 3027 by sending a special polling command. The polling command instructs the SAILOR 3027 or a group of SAILOR 3027 to send a data report immediately, start sending regular reports, change transmission schedule of reports or perform another task of the polled SAILOR 3027 terminal(s).

Get started

This chapter explains how to register, start up and log on your mini-C system. It has the following sections:

- *Registration*
- *User interfaces*
- *Start up the system*

Registration

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

For details on registration, see the Installation manual for the mini-C system.

After registration you must use a computer with the easyMail application or a SAILOR 6018 Message Terminal to set up the mobile number in the SAILOR 3027. See *Enter the mobile number* on page 58 (easyMail) or *Set the mobile number in the SAILOR 3027* on page 72 (SAILOR 6018).

User interfaces

If you are going to use your mini-C system for anything other than automatically transmitting reports, you should have a user interface for accessing the mini-C system. In Non-SOLAS Distress systems a user interface is mandatory, because of the need for safety communication.

You can control the mini-C system in two ways:

- Using the easyMail application installed on a computer. The computer must be connected via the LAN interface in the SAILOR 6194 Terminal Control Unit to the mini-C system.
- Using a SAILOR 6018 Message Terminal. The SAILOR 6018 must be connected to the CAN interface of the system.

easyMail application

Install easyMail

To install the easyMail application on your computer, do as follows:

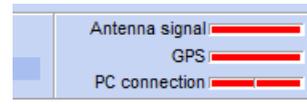
1. Go to www.cobham.com/satcom.
2. Select **Cobham SYNC Partner Portal**.
3. Select **Downloads > Product software > Maritime**.
4. Search for the **easyMail** software.
5. Click **Download**.
6. When the zip file is downloaded to your computer, extract the setup file from the zip file.
7. Run the setup file and go through the InstallShield Wizard.
8. When the Wizard is complete, you can start the application from the **easyMail** shortcut on the desktop, or from the **Start** menu.

Access your SAILOR 3027 with easyMail

1. Acquire a SAILOR 6194 Terminal Control Unit, if it is not already part of your system.
2. Connect your SAILOR 3027 to the CAN interface on the SAILOR 6194 Terminal Control Unit.
3. Connect a computer to the RS-232 port or the LAN port of the SAILOR 6194 Terminal Control Unit.

Refer to *SAILOR 6194 Terminal Control Unit, Installation and user manual [4]* for information on how to connect and set up the interfaces.

4. Start the application from the **easyMail** shortcut on the desktop, or from **Start** menu.
5. If the PC connection is not already set up (the PC connection bar is red), see *Set up PC communication with the SAILOR 3027* on page 61.



When all three bars are green, you can use the easyMail application to set up and control the mini-C system, send and receive messages etc. See *To use easyMail* on page 21.

SAILOR 6018 Message Terminal

The SAILOR 6018 has its own built-in user interface. If you are using a SAILOR 6018 with your SAILOR 6150 Non-SOLAS system, you must configure the SAILOR 6018 before using it for the first time.

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

To select the Inmarsat C application

The first time the SAILOR 6018 is switched on, you are asked to select which Message Terminal application to use. The SAILOR 6018 Message Terminal can run Radiotelex or Inmarsat C.

1. At the first startup, the SAILOR 6018 opens the **Select application** page.



2. Select **Inmarsat C** and tap **Store**.

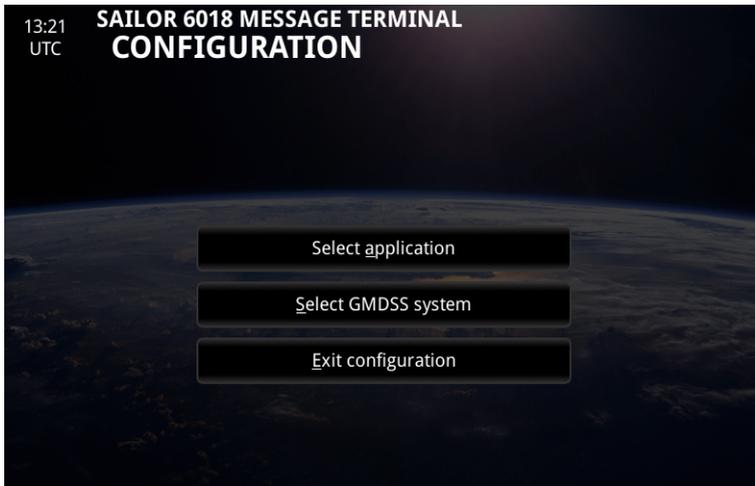
When you have selected and stored **Inmarsat C**, the SAILOR 6018 automatically restarts with the Inmarsat C application. For information on how to send Distress alerts, see *Distress alert with SAILOR 6018* on page 67.

For details on how to use the SAILOR 6018, see *SAILOR 6110 mini-C GMDSS, User manual [2]*.

If, at a later stage, you want to switch between the Radiotelex and Inmarsat C applications, do as follows:

1. During startup of the SAILOR 6018 and before the main screen appears, push the **Mute** button.

The **CONFIGURATION** page opens.



2. Select **Select application**.
3. Select the application you want to use and tap **Store**.
4. Select **Exit configuration**.

Start up the system

easyMail

When the power source is on, the SAILOR 3027 automatically starts up and logs on to the satellite network.

You can see the logon status on screen on a connected computer with easyMail installed.

SAILOR 6018 (for SAILOR 6150 Non-SOLAS system)

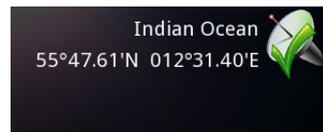
Power the system

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 6018.
 - Use the power switch in the right side of the SAILOR 6018, or
 - if you have installed a remote on/off switch, use that instead.



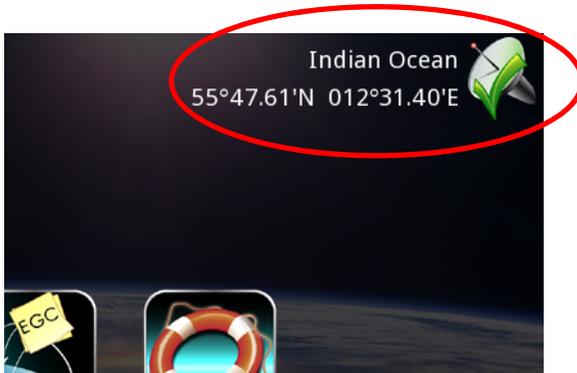
The SAILOR 6018 starts up and sends a signal to switch on the SAILOR 3027. The SAILOR 6018 shows the current status in the upper right corner of the display.



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

Log into the satellite network

The SAILOR 3027 logs into the Inmarsat C network 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:

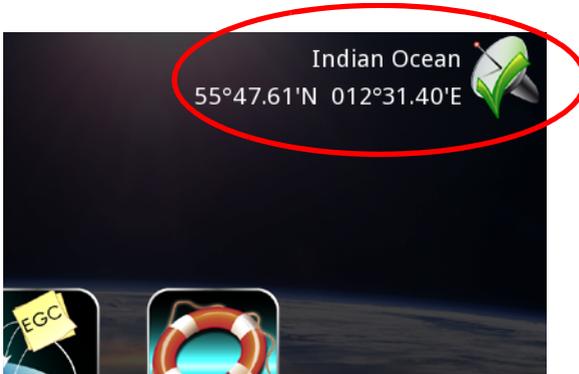
1. When the main menu of the SAILOR 6018 appears, select **Network**.



2. On the **Network Status** page select **Login**.



3. Select the Ocean Region to which you want to log in.
If the selected satellite is available, the system will now log in.
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.

To use easyMail

This chapter describes how to operate the mini-C system using the easyMail application. It has the following sections:

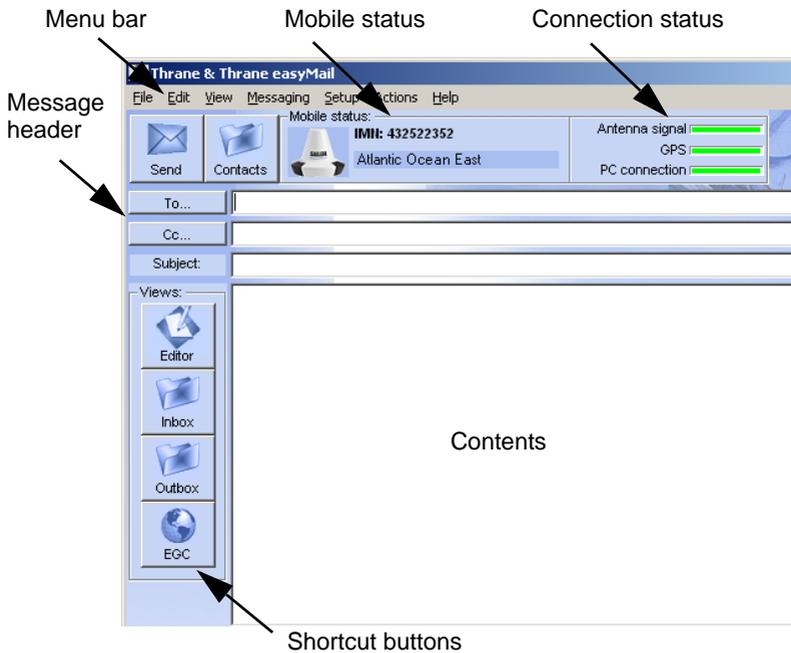
- *Overview of easyMail*
- *Distress functions (only SAILOR 6150)*
- *Work with messages*
- *Position reporting*
- *Receive EGCs*
- *Network status and settings*
- *View system details*
- *View or change position information*
- *View status and Info log*
- *To see the Info log*
- *Set up the default ISP and default LESes*
- *To set up the default LESes*
- *Set up reception of EGCs*
- *Set up ENIDs*
- *Set up the Land Earth Stations (LES)*
- *Set up Inmarsat Service Providers (ISP)*
- *Enter the mobile number*
- *Set the local time*
- *Set up password protection*
- *Set the language*
- *Set up PC communication with the SAILOR 3027*
- *Set up easyMail*

Overview of easyMail

For information on how to install and start up easyMail, see *easyMail application* on page 14.

Overview of the screen

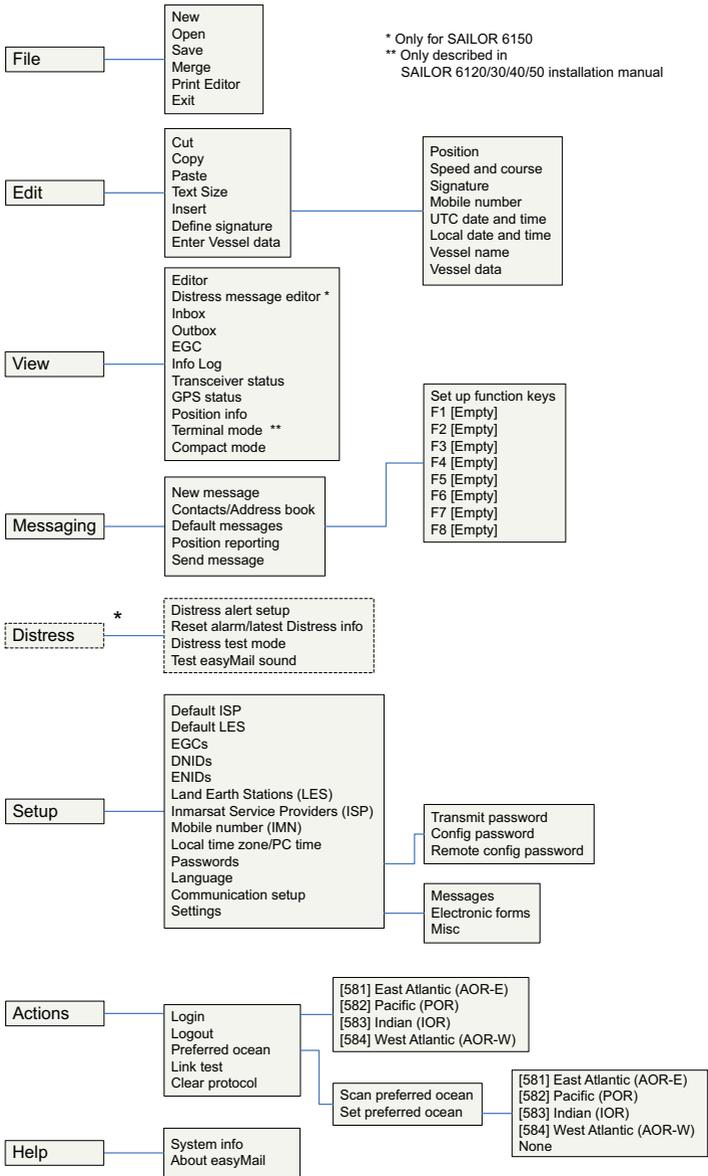
Below is an overview of the main screen in easyMail.



- The **menu bar** holds the menus. For an overview of all menus, see *Menu overview, easyMail* on page 24
- **Mobile status** shows the status of your SAILOR 3027. When connected and logged in, this field shows the mobile number (MMI) and the ocean region to which your SAILOR 3027 is logged in.

- **Connection status** shows the status of your PC connection, your mini-C antenna connection and your GPS connection.
- **Message header** contains the fields where you can enter recipients and subject for a message.
- **Shortcut buttons** may be used for quick access to some of the menu items. You can show/hide the shortcut buttons under **View > Compact mode**.
- **Contents.** Depending on the selected view, this area can show your message text or e.g. received messages or EGCs.

Menu overview, easyMail



Distress functions (only SAILOR 6150)

Write 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 menu bar, select **View > Distress message editor**.
A warning appears.
2. Click **Yes** and then **OK** to continue to the Distress message editor.
The position and mobile number of your SAILOR 3027 is automatically inserted at the beginning of the Distress message, together with the data you have entered under Vessel data (if any).
3. Type a subject for the message.

Important

The Subject field is important - some messages may not be received correctly if the subject is missing.

4. Type your message, describing the nature of the Distress.
5. Click **Send**.

Set up Distress alert

You can temporarily change the settings for your Distress function.

For information on how to use the Distress button to send a Distress alert, see *To send a Distress Alert (SAILOR 6150 only)* on page 65.

Default settings:

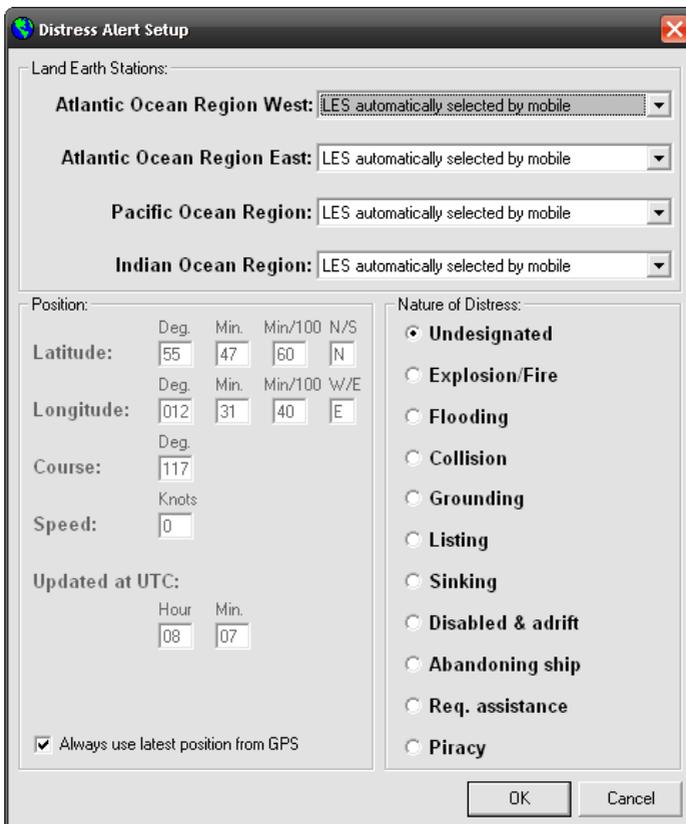
- Distress Alert Nature: Unspecified.
- Distress Alert Land Earth Stations: LES automatically selected by mobile. (the SAILOR 3027 selects the LES with the best signal).
- Distress Alert Position, Course and Speed: Always use latest position from GPS.

Note

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 LESes remain in the system.

To change the Distress alert settings, do as follows:

1. From the menu bar, select **Distress > Distress alert setup**.
2. Click **OK** after reading the warning popup window.



3. From the drop-down list at each ocean region, select the LES to be used for Distress alerts or leave the setting at **LES automatically selected by mobile** (default setting).

4. If necessary, change the position, course and speed.

Note

Do not change the default setting unless you have good reasons to do so. The default setting is "Always use latest position from GPS". 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).

5. Select the nature of the Distress.
6. Click **OK**.

Reset alarm/latest Distress info

After sending a Distress alert or receiving an urgent/distress priority EGC or message, you can reset the alarm light and sound in the alarm buttons. At the same time you can see status on Distress alerts and Distress test. Do as follows:

1. Select **Distress > Reset alarm/latest Distress info**.
A popup window shows information on the latest Distress Alert and the latest Distress test.
2. Click **OK**.

The light and sound in the alarm button(s) are switched off.

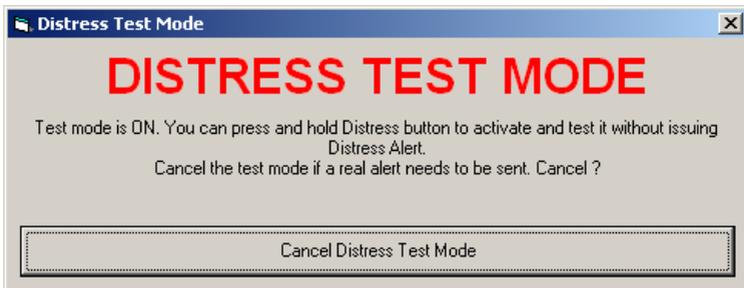
Test Distress buttons

Important

Never test the installation by sending an alert on-air!
If an alert is sent by mistake, inform the relevant authorities immediately.

You can test the Distress button(s) in your system without sending a real Distress alert. Do as follows:

1. Select Distress > Distress test mode.



2. When you see the Distress test mode window shown above, press the connected Distress button(s) as you would in a real 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 *To send a Distress Alert (SAILOR 6150 only)* on page 65.
3. To clear alarm indications, select **Distress > Reset alarms/latest Distress info**. The button light should go off.
4. Click **Cancel** to exit Distress test mode.

Note

The system automatically exits the test mode after 15 minutes, if you do not Cancel it.

Test easyMail alarm sound

To test the alarm sound in easyMail, do as follows:

1. Select **Distress > Test easyMail sound**.
2. Click **Start** to hear the sound on your computer.
Your computer will now play the same sound that you will hear when a Distress alert is sent or an urgent/distress priority EGC or message is received.
3. Click **Stop** to stop the sound.
4. When you have finished testing, click **Cancel** or close the window.

Work with messages

Prepare the system

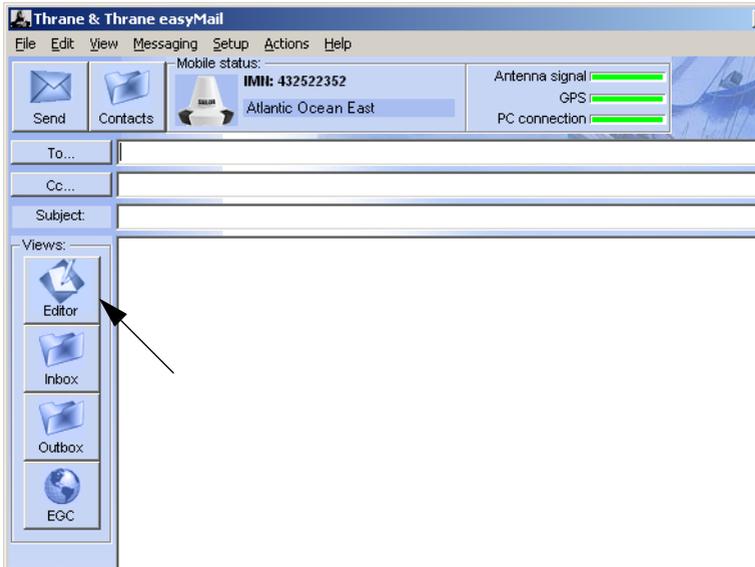
Before you can send a message:

- The recipient of the message must be listed in the Address book. For details, see *Manage the list of Contacts* on page 38.
- The SAILOR 3027 must be logged in to an Ocean Region. Normally the SAILOR 3027 logs in automatically. If it is logged out, see *Log into and out of the network* on page 46.
- The default ISP must be set.
See *Set up the default ISP and default LESes* on page 51.
- Default LESes must be set for all Ocean Regions.
See *To set up the default LESes* on page 51.
- The mobile number must be configured in the SAILOR 3027.
This is normally set up during installation. If not, see *Enter the mobile number* on page 58.

Write a routine priority message

To write a routine priority message, do as follows:

1. If the editor is not already open, select **File > New** or click the **Editor** button to the left (if present).



2. Select **To...** in the top left corner and select the recipient(s) of the message from the Address book.

Alternatively you may type in the recipient manually.

3. In the **Subject** field, type in a subject title for your message.

Important

The Subject field is important - some messages may not be received correctly if the subject is missing.

4. If you want to send a data file instead of typing text in the text editor, skip the next step and go directly to step 6.
5. Type your message text in the editor.

For information on how to edit text, see *Edit your message* on page 33.

Note

If you want to save your message without sending it, you can save it as a file by selecting **File > Save**.

6. When the message is ready to be sent, click **Send**.



7. Select what you want to send.
 - If you want to send a data file, select **File from disk**, browse to the file you want to send and click **Open**.
 - If you want to send the text in the editor, select **Text in editor**.
8. Select if you want:
 - Confirmation request
 - Print message upon sending
9. Select **OK**.

The message is sent as soon as the network allows it. You can see the status of your message under **View > Outbox**.

Options for writing and sending messages

In the **File** menu, you have the following options:

- **New.** Opens a new message.
- **Open.** Allows you to select a text file to be opened in the editor.
- **Save.** Allows you to save the message for later use.
- **Merge.** Allows you to insert the contents from a text file into your message at the cursor position.
- **Print editor.** Prints the message on a connected printer.
- **Exit.** Closes easyMail.

Edit your message

When writing a message you have some editing options, described in the next subsections.

To cut, copy and paste

In the **Edit** menu you can select **Cut**, **Copy** and **Paste** as in a normal editor.

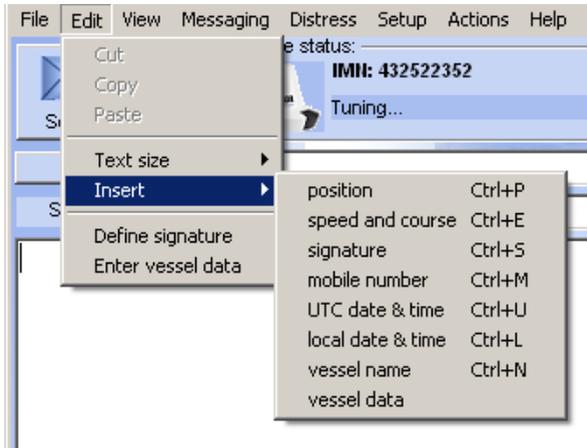
To change text size

To change the text size, press Ctrl+F1 (smaller) and Ctrl+F2 (larger), or select **Edit > Text size > + Ctrl+F2** or **- Ctrl+F1**.

To insert information automatically

To insert information such as position and vessel data in your message, do as follows:

1. Select **Edit > Insert**.



2. Select the information you want to insert.

Note Signature and vessel data must first be defined. See the next section.

The information is now inserted in your message as part of the message text.

To enter signature and vessel data

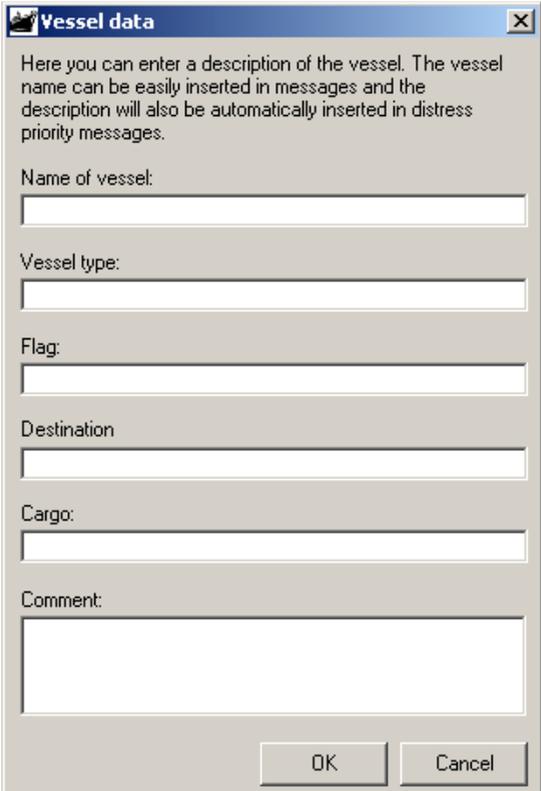
You can enter a signature and your vessel data for later automatic insertion in your messages (see previous section). To define your signature, do as follows:

1. Select **Edit > Define signature**.
2. Type in your signature and click **OK**.

The signature is now saved for later use with Edit > Insert.

To enter your vessel data, do as follows:

1. Select **Edit > Enter vessel data**.



Vessel data

Here you can enter a description of the vessel. The vessel name can be easily inserted in messages and the description will also be automatically inserted in distress priority messages.

Name of vessel:

Vessel type:

Flag:

Destination

Cargo:

Comment:

OK Cancel

2. Fill in the vessel data for your ship and click **OK**.

To use default messages

You can write a default message that you can recall and send by pressing one of the F-keys F1 to F8.

Create a default message

To **create** a default message, do as follows:

1. Open the message editor.
2. Type in your message.
3. Select **Messaging > Default messages**.
4. Select the F-key you want to use for the message.
5. Type a name for the message.
6. Click **Save and close**.

Send a default message

To **recall and send** the message, fill in the message recipient and a subject in the editor **To...** field and press the F-key you selected above.

Important

The Subject field is important - some messages may not be received correctly if the subject is missing.

View messages in the Inbox

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

1. Select **View > Inbox**.



2. Double-click the message you want to read.

From within the message you have the following options:

- **Print.** The message is printed on the connected printer.
- **Save.** You can browse to a location and save the message (.txt file)
- **Forward.** The message text is inserted into the editor so you can forward it to a new recipient.
- **Wrap text.** When selected, the text is wrapped to fit the window size.

3. Click **OK** or **Cancel** to close the message.

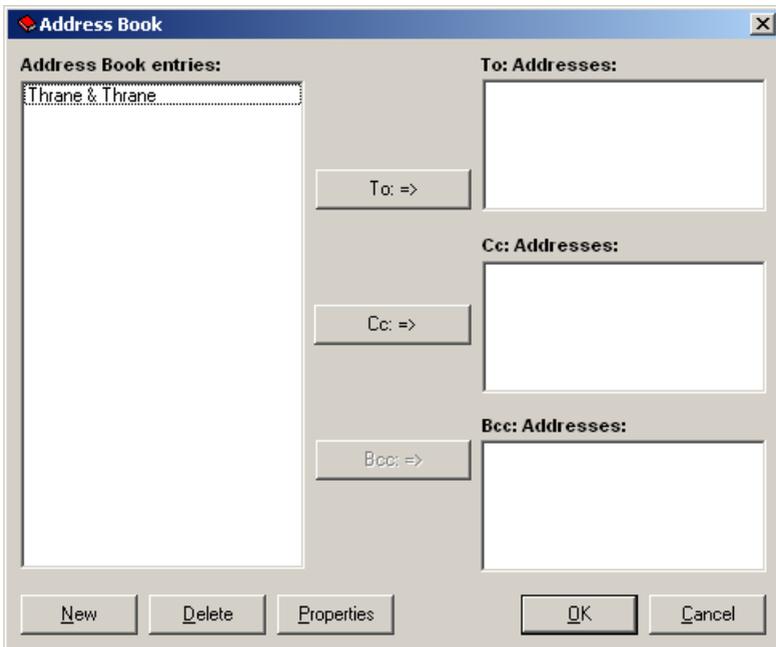
4. To delete one or more messages, right-click the message(s) and select **Delete message**

View sent messages (Outbox)

After writing a message and selecting Send, you can see the message and the status of the message in the Outbox. To view messages in the Outbox, select **View > Outbox**.

Manage the list of Contacts

To manage your list of contacts, click  or select **Messaging > Contacts/Address book**.

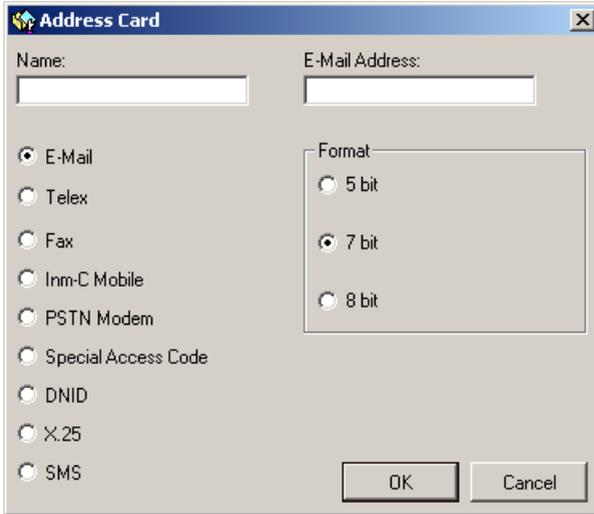


To see details for a contact, select it and click **Properties**.

To add a new contact

Do as follows:

1. In the **Address book**, select **New** at the bottom of the page.



Address Card

Name:

E-Mail Address:

E-Mail

Telex

Fax

Inm-C Mobile

PSTN Modem

Special Access Code

DNID

X.25

SMS

Format

5 bit

7 bit

8 bit

OK Cancel

2. Type in the name of your contact.
3. Select the address type below the name.
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 new contact is now listed in the Address book.

Message formats and presentation:

Type	Format of number	Example	Presentation
E-mail	Standard e-mail address	info@cobham.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	Pre-defined codes: <ul style="list-style-type: none"> • 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

Table 1: Message formats and presentation

To edit a contact

Do as follows:

1. In the **Address book**, select the contact.
2. Select **Properties**.
3. 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 **Address book**, select the contact.
2. Select **Delete**.
3. Select **Yes** to confirm.
4. Select **OK** to leave the Address book.

Position reporting

For general information on the position reporting service, see *Position reports* on page 11.

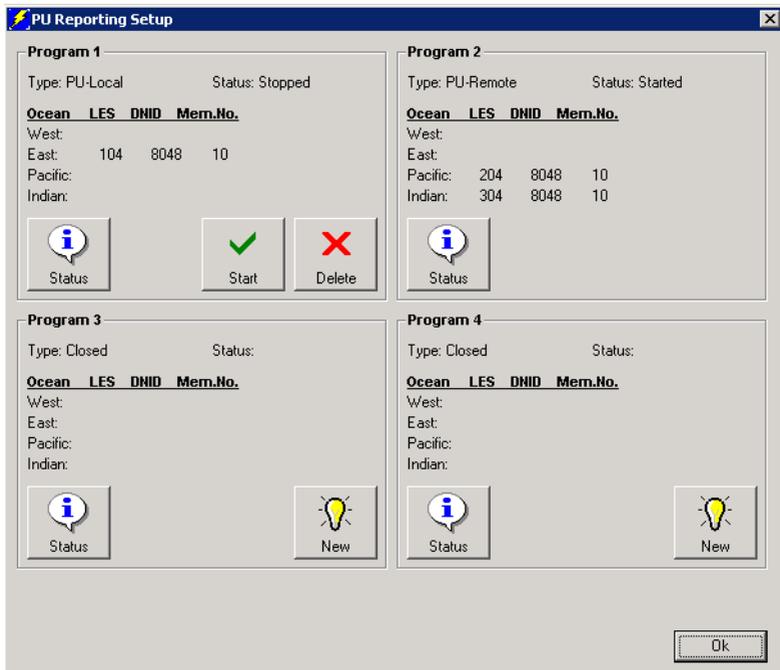
Note

To be able to use the position reporting feature, a DNID must be downloaded and enabled in the SAILOR 3027. See *Set up ENIDs* on page 53.

To access the PU reporting setup page, Select:

Messaging > Position reporting.

The PU (Position Unreserved) reporting setup window shows the position reporting programs for the SAILOR 3027. For each program you can see the status and whether it is a local or remote program.



To start a local position reporting program

Note Only local position reporting programs can be managed locally. You can see the remotely configured programs as well but you cannot change them.

To start a program that is already defined, do as follows:

1. From the PU Reporting Setup page, click the **Start** button at the program you want to start. The Start button becomes a Stop button



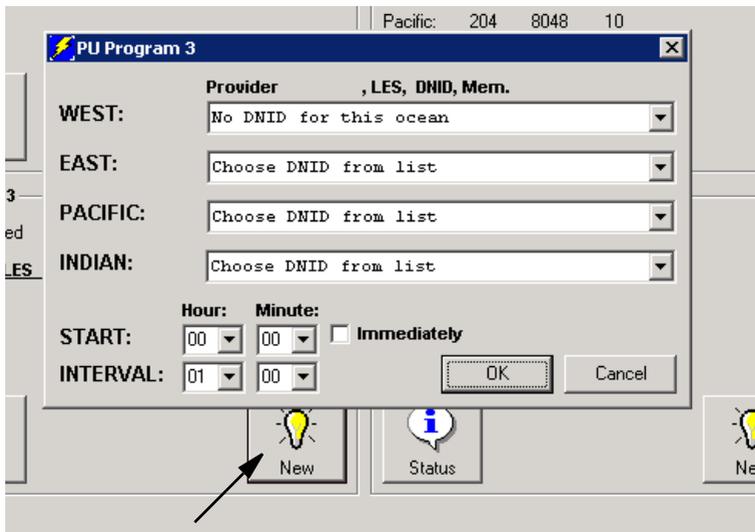
The SAILOR 3027 will now start sending position reports from the defined start time with the defined intervals until you stop it with the **Stop** button.

2. Click **OK**.

To define a new position reporting program

To define a new local program, do as follows:

1. From the **PU Reporting Setup** page, select **New**.



2. Select the DNID information (provider, LES, DNID and member number) for each ocean region.
3. Select the time to start the position reporting or select Immediately.
4. Select the interval between the position reports.
5. Click **OK**.
The program is now set up and you can start and stop it with the buttons as described in the previous section.
6. Click **OK** again to exit the PU Reporting Setup page.

Receive EGCs

You can receive various types of EGCs in easyMail. For details about how to set up which EGCs to receive, see *Set up reception of EGCs* on page 52.

Note

To be able to receive FleetNET EGCs, an ENID must be downloaded and enabled in the SAILOR 3027. See *Set up ENIDs* on page 53.

Note

When the EGC Inbox is full, the oldest EGCs are automatically deleted.

View incoming EGCs

To view EGCs, do as follows:

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

Disk Filename	Modem Filename	LES	Service	Priority	Bits	Date & Time	Size	Ref.No.	Routing
11032909.egc	EGC.467	121	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-29 04:33	416	21430	Mem
11032908.egc	EGC.466	112	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-28 21:39	5670	14567	Mem
11032907.egc	EGC.465	112	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-28 21:32	2854	14567	Mem
11032906.egc	EGC.464	121	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-28 21:03	5606	21421	Mem
11032905.egc	EGC.463	102	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-28 17:36	251	8572	Mem
11032904.egc	EGC.462	102	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-28 17:36	364	8571	Mem
11032903.egc	EGC.461	102	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-28 17:36	2274	8569	Mem
11032902.egc	EGC.460	102	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-28 17:35	695	8570	Mem
11032901.egc	EGC.459	102	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-28 17:33	1318	8569	Mem
11032820.egc	EGC.458	112	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-28 09:36	4301	14515	Mem
11032819.egc	EGC.457	112	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-28 09:30	2598	14515	Mem
11032818.egc	EGC.456	121	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-28 09:03	5302	21409	Mem
11032817.egc	EGC.455	112	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-27 21:32	4175	14463	Mem
11032816.egc	EGC.454	121	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-27 21:08	5051	21375	Mem
11032815.egc	EGC.453	112	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-27 09:31	3510	14411	Mem
11032814.egc	EGC.452	121	MET/NAV Warning/Forecast	Safety	7 Bit IA5	11-03-27 09:08	4138	21366	Mem
11032813.egc	EGC.451	144	System Call	Routine	7 Bit IA5	11-03-27 04:23	1170	346	Mem
11032812.egc	EGC.450	144	System Call	Routine	7 Bit IA5	11-03-27 04:01	1170	346	Mem

2011-03-29 05:54:48: INFO 91: Receiving message successful.: File EGC.467 Message no. 21430 Priority 1 LES id 121 EGC service 31

2. Double-click an EGC to see the contents.
From within the EGC you have the following options:
 - **Print.** The EGC is printed on the connected printer.
 - **Save.** You can browse to a location and save the EGC (.txt file)
 - **Forward.** The EGC text is inserted into the message editor so you can forward it to a new recipient.
 - **Wrap text.** When selected, the text is wrapped to fit the window size.
3. Click **OK** or **Cancel** to close the EGC.
4. To delete one or more EGCs, right-click the EGC(s) and select **Delete EGC**.

Network status and settings

The Mobile status field at the top of the page shows the status of the network connection. When the SAILOR 3027 is logged in to the network, this field shows the ocean region to which the SAILOR 3027 is logged in.



Log into and out of the network

To log into the Inmarsat C network, select **Actions > Login** and select the Ocean region you are logging into.

If you want to use the preferred ocean configured in the SAILOR 3027, or simply the region with the best signal, use **Scan preferred ocean** instead (see the next section).

To log out of the network, select **Actions > Logout**.

Scan the network

If you want the system to find the best signal, select **Actions > Preferred ocean > Scan preferred ocean**. The system will then scan for the best signal and log in.

If an ocean region is selected under Set preferred ocean, the system will scan the selected ocean first.

Set the preferred ocean region

If you want the system to generally use a specific ocean region, select **Actions > Preferred ocean > Set preferred ocean** and select the ocean region you want to use. If you select **None**, the scanning process will use the ocean region with the best signal.

The selected ocean region is used when you select **Actions > Preferred ocean > Scan**.

Link test

Note 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 *Write a routine priority message* on page 31.

If you still want to make a link test, do as follows:

1. In the easyMail application, click **Actions > Link test**.
After the Link test is requested, the NCS assigns a LES for performing the Link test. This can take a while.
2. When the **Linktest** window appears, click **Execute** to start the test.

Note Because the link test has low priority in the network it can take a long time for the system to complete the link test, and during this time the system has limited functionality.

A popup window informs you that the test has started. When the test has ended another popup window informs you that the test was completed successfully or that it failed.

Stop Transmission

If you want the system to immediately stop transmitting, select **Actions > Clear protocol**.

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

View system details

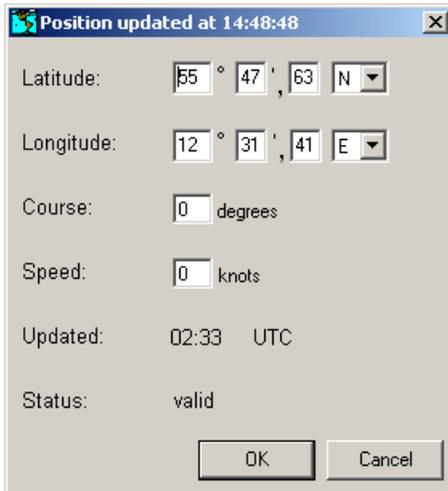
To see information on easyMail and the SAILOR 3027, click  or select **Help > System info**.



View or change position information

To view or change your current position information, course and speed, do as follows:

1. select **View > Position info.**



2. If there is no synchronization with the positioning system, you can enter a manual position, course and speed.
3. Select **OK**.

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

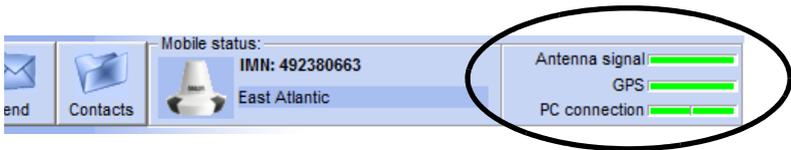
View status and Info log

To see status

To see the status of the SAILOR 3027, select **View > Transceiver status**, or click the **Antenna signal** bar in the connections status field at the top of the page.

To see the GPS status, select **View > GPS status**, or click the **GPS** bar in the connections status field at the top of the page.

Connection status field



To see the Info log

To see the information log, select **View > Info log**.

The information log shows the most recent events registered in your mini-C system.

Set up the default ISP and default LESes

To set up the default ISP

To set up a default ISP, do as follows:

1. Select **Setup > Default ISP**.
2. Select the default ISP from the list.
3. Select **Set Default LESes to ISP settings** if you want to use the default ISP with the Default LESes.
4. Click **OK**.

To set up the default LESes

To set up the default LESes, do as follows:

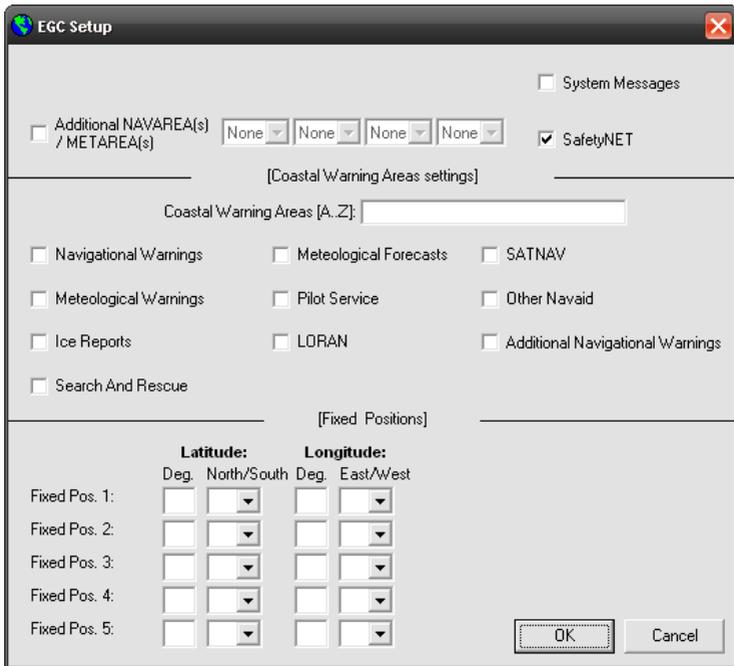
1. Select **Setup > Default LES**.
2. Select the default LES for each ocean region.
3. Click **OK**.

Set up reception of EGCs

For general information on EGCs, see *Enhanced Group Call (EGC)* on page 10.

To set up reception of EGCs, do as follows:

1. Select **Setup > EGCs**.



2. To set up the additional areas from which you want to receive meteorological or navigational EGCs, select **Additional NAVAREA(s) /METAREA(s)**.

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

Note

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

3. Select whether you want to receive **System Messages** or **SafetyNET** messages or both.
4. To change the Coastal Warning Areas, type in the new areas under **Coastal Warning Areas [A..Z]**.
5. Select the types of EGC service you want to receive.
6. If you want to receive EGCs at specific positions on your route, select **Fixed positions** and fill in the position information for each point on the route.
7. Click **OK**.

Set up ENIDs

ENIDs (EGC Network IDentification) are used for identifying the SAILOR 3027 on the network in order for the terminal to receive FleetNET EGCs.

ENIDs must be set up with your LES operator and downloaded to your SAILOR 3027 before you can use them.

To set up the ENIDs, do as follows:

1. Select **Setup > ENIDs**.
The ENIDs are listed with provider, ENID and status.
2. Select the ENIDs you want to enable.
3. Click **OK**.

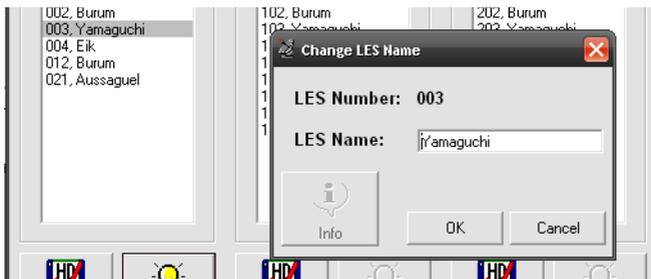
Set up the Land Earth Stations (LES)

To view or edit the list of Land Earth Stations for each ocean region, do as follows:

1. Select **Setup > Land Earth Stations (LES)**.



2. Select a LES and click **Edit**.



3. If necessary, type in the new name of the LES.
4. Click **OK**.
5. To use default LES numbers and names for an ocean region, click the **Default** button and click **Yes**.
6. Click **OK** to exit.

List of currently supported LESes

The table below shows the LESes supported by the service providers at the time of writing. Note that the list is dynamic, so it may not be completely up to date.

Service Provider	LES no. AOR-W	LES no. AOR-E	LES no. POR	LES no. IOR
CTTC China	-	-	211	311
Fucino	-	105	-	335
Haiphong	-	-	-	330
KDDI SatMail-C Japan	003	103	203	303
Morsviazspuznik Russia	-	117	217	317
OTE Greece	-	-	-	305
SingTel Mail (SAC65)	002	102	210	328
Stratos Global C-email 02	002	102	202	302
Stratos Global C-email 12	012	112	212	312
VISHIPEL	-	-	-	330
Vizada SkyFile C 01	001	101	201	301
Vizada SkyFile C 04	004	104	204	304
Vizada SkyFile C 21	021	121	221	321

Table 2: Supported LESes

Set up Inmarsat Service Providers (ISP)

Note Do not change these settings unless you know the exact formats to enter.

The Inmarsat Service Providers are already set up when you receive your system. However, if an Inmarsat Service Provider e.g. changes the format for email, you can change these settings to match the new format.

To set up the Inmarsat Service Providers in the SAILOR 3027, do as follows:

1. Select **Setup > Inmarsat Service Providers (ISP)**.

Inmarsat Service Providers

New Provider Delete Provider Load Default

Provider name: West: East: Pacific: Indian:
CTTC China Add [] [] 211 311

Service Providers: To: TO: []
CTTC China Cc: CC: []
KDDI SatMail-C Japan Bcc: []
Morsviazsputnik Russia Subject: SUBJECT: []
OTE Greece Message Prefix: STX: []
SingTel Mail65 (SAC65) Address Type: SAC []
SingTel Mail65 (SAC6500) Address: EMAIL []
SingTel Mail65 (SAC6599) Delimiter: : []
Stratos Global C-email 02 SMS prefix: [] Postfix: []
Stratos Global C-email 12 SMS SAC: []
Telemar X25
Vizada SkyFile C 01
Vizada SkyFile C 04
Vizada SkyFile C 21

OK Cancel

2. To edit the information for a provider, select the provider from the list and fill in the new information as specified from the provider.
3. Click **OK**.

To add a new provider

To add a new provider to the list, do as follows:

1. In the Inmarsat service providers window, click **New provider**.

2. Type the name of the provider in the top left corner and click **Add**.
The new provider is now added to the list, but without any information.
3. Fill in the information for the provider.
4. Click **OK**.

Enter the mobile number

Before you can use the SAILOR 3027 on the Inmarsat C network you must configure the mobile number from your service provider in the SAILOR 3027.

To enter the mobile number, do as follows:

1. Select **Setup > Mobile number (IMN)**.
2. Type in the mobile number from your service provider.
3. Click **OK**.

The number is now stored in the SAILOR 3027 and can be used to access the SAILOR 3027 on the Inmarsat C network.

Set the local time

The SAILOR 3027 gets the UTC time from the GPS receiver. You can convert this time to local time and set the time on your computer accordingly.

Do as follows:

1. Select **Setup > Local time zone/PC time**.



2. Use the up/down arrows to set the time difference between your local time and UTC time.
3. At the bottom of the window, select one of the following:
 - **Yes.** The PC time is automatically updated at startup
 - **No.** The PC time will not be updated.
 - **Ask.** You will be asked at startup whether you want to update the PC time or not.
4. Click **OK**.

Set up password protection

You can add password protection to three different actions: Transmission, configuration and remote configuration.

To add password protection, do as follows:

1. Select **Setup > Passwords**.
2. Select the password you want to add or change.
3. Type in the old password (leave empty if there was no password protection).
4. Type in the new password under **New password** and again under **Confirm password**.
5. Click **OK** and close easyMail.

With the password protection, easyMail will ask for a password when a person tries to access the password protected areas (transmit a message, configure the system or configure the system remotely).

To remove the password, repeat the above procedure and leave the fields with the new password empty.

Set the language

To change the language in easyMail, do as follows:

1. Select **Setup > Language**.
2. Select the language you want in easyMail.
3. Select at the bottom whether you want to show the language selection at startup.
4. Click **OK**.

Set up PC communication with the SAILOR 3027

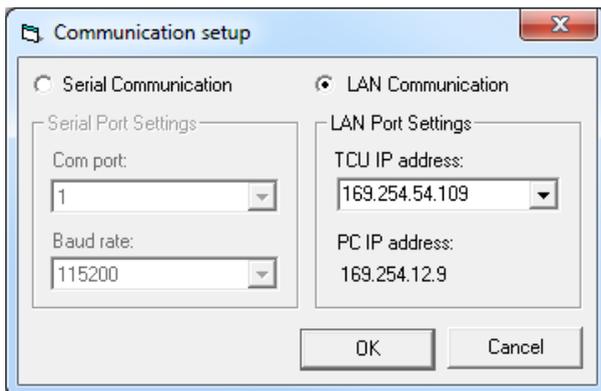
To connect a computer to the system you must use a SAILOR 6194 Terminal Control Unit. You can connect the computer to the LAN interface or the RS-232 interface on the SAILOR 6194.

Note | The Communication setup is not accessible when the computer has established a connection with the SAILOR 3027.

To set up LAN communication

easyMail should connect automatically to the SAILOR 6194/SAILOR 3027. If not, set up the LAN communication as follows:

1. Select **Setup > Communication setup**.
2. Select **LAN communication**.



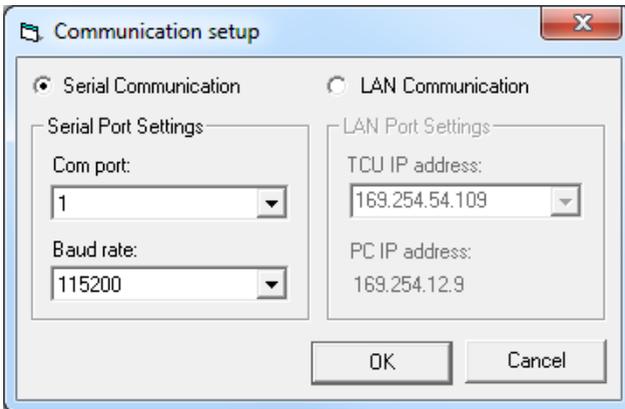
3. Select the **IP address** of the SAILOR 6194 Terminal Control Unit (TCU) from the drop-down list.
PC IP address: Shows the IP address of your PC.
4. Click **OK**.

easyMail now tries to establish a connection to the SAILOR 6194 and thereby the SAILOR 3027. When the LAN connection is established the PC connection bar at the top of the easyMail window turns green.

To set up RS-232 communication

To set up easyMail for RS-232 communication with the SAILOR 6194 and thereby the SAILOR 3027, do as follows:

1. Select **Setup > Communication setup**.



2. Select **Serial communication**.
3. Select the **COM port** you are using on your computer and the **Baud rate** of the SAILOR 6194 (default is 115200).
4. Click **OK**.

easyMail now tries to establish a connection to the SAILOR 6194 and thereby the SAILOR 3027. When the RS-232 connection is established the **PC connection** bar at the top of the easyMail window turns green.

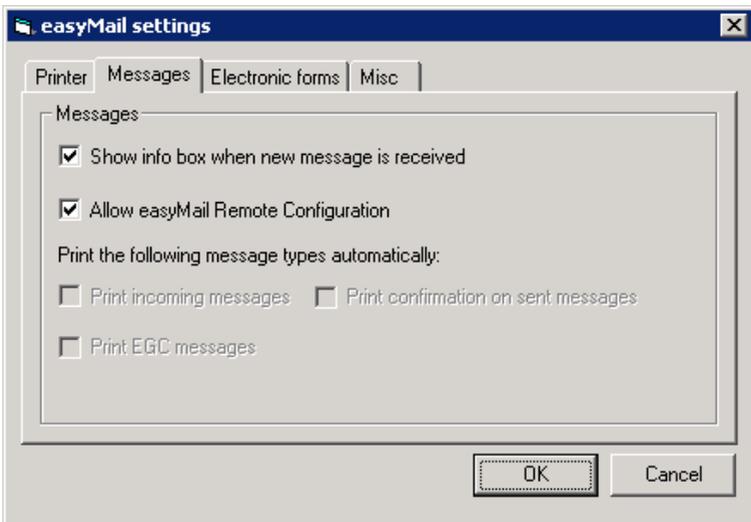


Set up easyMail

To change message setup

You can set up some general settings for messages in the Messages tab. Do as follows:

1. Select **Setup > Settings**.
2. Select the **Messages** tab.



3. If you want to get an info box when a new message has arrived, select **Show info box when new message is received**.
4. If you want to allow configuration of easyMail from a remote location, select **Allow easyMail Remote Configuration**.
Selecting this option enables an authorised remote user to configure certain parts of easyMail using a special kind of message sent to your mini-C system.
5. If you have a printer connected, select the message types you want to print automatically (if any).

To use electronic forms

Some users have a need for a specific layout, e.g. for fishery catch reporting. The files for this layout must be downloaded to the system before selecting the formats on this page.

Miscellaneous settings

In Harbour Button

Select **Setup > Settings > Misc > In Harbour Button** to select whether or not you want to show an In Harbour Button in easyMail. The In Harbour button is used for setting a longer reporting interval when the ship is in harbour.

Reset HotList

The HotList is a list of the last used commands on the SAILOR 3027. To see the list, press F12.

To reset the HotList, select **Setup > Settings > Misc > Reset HotList**.

To use Distress and SSA buttons

This chapter describes how to send Distress alerts with the SAILOR 3042E Non-SOLAS Alarm Panel or the SAILOR 6018 Message Terminal, and how to send a Ship Security Alert with the SSA buttons.

It has the following sections:

- *To send a Distress Alert (SAILOR 6150 only)*
- *To send a Ship Security Alert (SAILOR 6120 only)*

To send a Distress Alert (SAILOR 6150 only)

Distress alert with SAILOR 3042E

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

With the SAILOR 6150 system you may have a SAILOR 3042E Inmarsat C Distress Alarm Box installed.

To send a Distress Alert, do as follows:

1. Open the cover for the Distress button.
2. Press and hold the button until the light is steady and the buzzer stops (more than 5 seconds).

During this time the button light flashes and the buzzer sounds. After 5 seconds the red light goes steady on and the buzzer is silent.

You must have a computer with easyMail in a SAILOR 6150 system with SAILOR 3042E. You can use easyMail to see the status of the Distress and to follow up. See *Distress functions (only SAILOR 6150)* on page 25.



Important

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

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

For information on how to send a Distress message, see *Write a Distress priority message* on page 25.

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 *Set up Distress alert* on page 25.

To clear Distress indications

Note

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

If you want to turn off all Distress indications while a Distress Alert is still active, you can use **easyMail**: Select **Distress > Reset alarm/Latest Distress info**. For details, see *Reset alarm/latest Distress info* on page 27.

Distress alert with SAILOR 6018

If you have a SAILOR 6018 Message Terminal connected to your SAILOR 6150 system, you can use the Distress button on the SAILOR 6018 to send Distress alerts, and you may also have additional SAILOR 6101 or SAILOR 6103 alarm panels connected.

The procedure below is the same on the SAILOR 6018 Message Terminal as on the SAILOR 6101/6103 Alarm Panel.

Important

Only send a Distress Alert if there is grave and imminent danger!
The Distress Alert can be compared to a MAYDAY call.

To send a Distress Alert, do as follows:

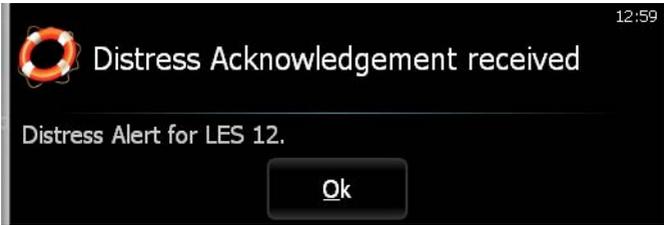
1. Open the cover for the Distress button.
2. Push and hold the button until the light is steady and the buzzer stops (more than 3 seconds).



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 behavior of the Distress button on the SAILOR 6018.

Behavior	Meaning
Button light flashes, buzzer sounds	The Distress button is pushed. 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 or changing the Distress alert settings, see *SAILOR 6110 mini-C GMDSS, User manual [2]*.

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

To clear 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.

1. On the SAILOR 6018, select **Distress**.
2. Select **Status**.



3. Select **Clear distress indications**.

To send a Ship Security Alert (SAILOR 6120 only)

The recipient(s) of the Ship Security Alert must be configured in the SAILOR 3027 according to the Flag Administration under which the vessel is sailing. The recipients can be e-mail addresses, phone numbers (SMS), fax numbers or telex numbers.

Install the SSA buttons and configure the SAILOR 3027 as described in *SAILOR 6194 Terminal Control Unit, Installation and user manual [4]* and *SAILOR 6120/30/40/50, Installation manual [1]*.

To send a covert Ship Security Alert (SSA)

To send a covert SSA, do as follows:

1. Open the cover for the red covert alert button.
2. Push the button.
 - **Instant activation button:** When pushed, an alert is sent immediately to the configured SSA recipient(s).
 - **Standard activation buttons:** When pushed, an alert is sent after 30 – 33 seconds. If released (pushed again) within the 30 seconds, the alert is not sent.
3. An SSAS message is now sent every 30 minutes until you stop it.
4. To stop sending SSAS messages:
 - **Instant activation button:** Send an SSAS test message (push test + push SSAS within 30 seconds)
 - **Standard activation button:** Release the button (push the button again)



To use the green or yellow test button

The green or yellow button is a test button with a lamp. The button has momentary action (closed only as long as the button is pressed and held). When the system is operational¹, the test button is permanently lit. When the test button is pressed the light switches off and the covert alert buttons can be pressed without sending any alerts. If a covert alert button is pressed for 30 – 33 seconds during test, an SSA Test Message is sent to all recipients configured to receive test messages.

-
1. “Operational” means the following criteria are met: GPS fix obtained, logged in, recipient(s) of covert alert configured, all SSA buttons connected correctly.

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:

- *Get support*
- *Troubleshooting guide*

Get support

If this manual does not provide the remedies to solve your problem, you may want to contact your Inmarsat Service 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 Inmarsat Service Provider, check your Airtime subscription documents for a contact number to call.

System support

Lists of certified partners and distributors are available on www.cobham.com/satcom. Select **Technical Service Partner List** from the menu to the right and select one of the dealers or partners lists shown.

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 using the SAILOR 6018.	The SAILOR 6018 has a remote on/off switch, so the power button is disabled.	If the SAILOR 6018 is using a remote on/off switch, use that instead of the power button.
	There is no power on the input to the SAILOR 6018.	Check that all power cables between the ship power source and the SAILOR 6018 are connected correctly, and that the power source is on.
The SAILOR 6018 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.	<p>Make sure the SAILOR 3027 has a clear view in all directions. See the installation manual for details.</p> <p>If the view is not blocked, check the error log. If the problem persists, contact your local distributor.</p>
No connection between SAILOR 6018 and SAILOR 3027	The CAN cables between the SAILOR 3027 and the SAILOR 6018 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 connection between easyMail and SAILOR 3027	The PC connection to the SAILOR 3027 is not set up properly.	For information on how to set up the PC connection, see <i>Set up PC communication with the SAILOR 3027</i> on page 61.
The units in the mini-C system do not appear in the TMA (ThraneLINK Management Application).	The computer running the TMA is set up with a fixed IP address that does not match the local network with the mini-C system units.	Enable DHCP on your computer. 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 in easyMail

Status information

The top of the display shows the most important status information.



You can click each status area to get details, or use the View menu to enter the status pages.

Information of events

Popup windows

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

When you have read the text, select **OK** to close the window. The latest event is shown in the info bar at the bottom of the page and is added to the information log.

Information log

To see the information log, select **View > Info log**.

The log shows the events that are registered in your mini-C system.

Status signalling in SAILOR 6018

The SAILOR 6018 can show basic status and error messages. When an error occurs in the system, check the SAILOR 6018 for information first.

Status information in SAILOR 6018

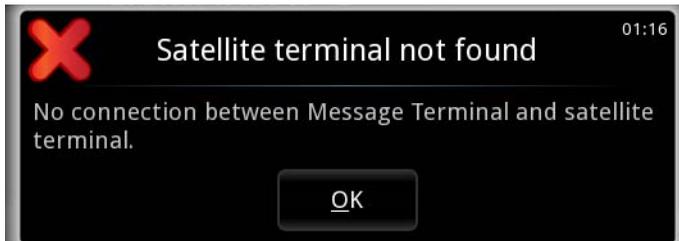
The upper right corner of the display shows the most important status information. You can also enter the individual pages from the main menu to see more detailed status information.

Information of events

Popup windows

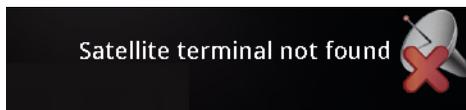
When an event requires your attention, a popup window appears.

Example:



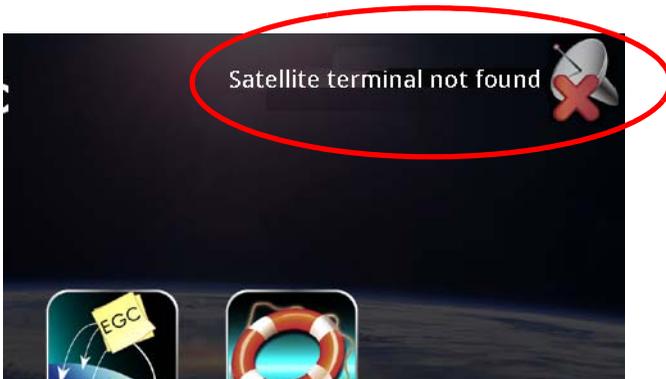
When you have read the text, select **OK** to close the window.

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.



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 Cobham SATCOM product fail, please contact your dealer or installer, or the nearest Cobham SATCOM partner. You will find the [Technical Service Partner list](#) on www.cobham.com/satcom where you also find the [Cobham SYNC Partner Portal](#), which may help you solve the problem. Your dealer, installer or Cobham SATCOM 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 Cobham SATCOM partner will also take care of any warranty issue.

Repack 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 mini-C 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.

Software update

For details on software update, see the installation manual [1].

Conformity

CE (RED)

The mini-C systems SAILOR 6120, SAILOR 6130, SAILOR 6140 and SAILOR 6150 are CE certified as stated in the “EU Declaration of Conformity” enclosed in electronic copy on the next pages.

EU Declaration of Conformity

Hereby **Thrane & Thrane A/S trading as Cobham SATCOM** declares that the following equipment complies with the specifications of:

RED directive 2014/53/EU concerning Radio Equipment

Equipment included in this declaration

Model	Description	Part no.
TT-6120A	SAILOR 6120 SSA System	406120A

The full text of the EU declaration of conformity is available at the following internet address:

<http://sync.cobham.com/satcom/support/downloads>

RED

Document no.: 99-157523-A

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Equipment included in this declaration

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TT-6130A	SAILOR 6130 LRIT System	406130A

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RED

Document no.: 99-157524-A

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RED directive 2014/53/EU concerning Radio Equipment

Equipment included in this declaration

Model	Description	Part no.
TT-6140A	SAILOR 6140 Maritime System	406140A

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RED

Document no.: 99-157525-A

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RED directive 2014/53/EU concerning Radio Equipment

Equipment included in this declaration

Model	Description	Part no.
TT-6150A	SAILOR 6150 Non Solas System	406150A

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<http://sync.cobham.com/satcom/support/downloads>

RED

Document no.: 99-157526-A

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Version 2, June 1991

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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.

D

DNIC Data Network Identification Code

DNID Data reporting Network IDentification code. An address code to an electronic mailbox at the Land Earth Station.

E

EGC Enhanced Group Call. The system for broadcasting messages via the mobile satellite communications system operated by Inmarsat. EGC is part of the Inmarsat C system and supports two services: SafetyNET and FleetNET.

ENID EGC Network IDentification code. 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 and 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 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.

I

IMN Inmarsat Mobile Number

IMSO International Mobile Satellite Organisation. An intergovernmental organisation that oversees certain public satellite safety and security communication services provided via the Inmarsat satellites.

ISP Inmarsat Service Provider. The company providing the Inmarsat services.

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

LRIT Long Range Identification and Tracking. A system established by the IMO applying to all passenger ships, cargo ships > 300 gross tonnage and mobile offshore drilling units. These ships/units must automatically report their position to their Flag Administration at least 4 times a day. Other contracting governments may request information about vessels in which they have a legitimate interest under the regulation.

Lua A lightweight multi-paradigm programming language designed as a scripting language with extensible semantics as a primary goal.

M

METAREA A geographical area established for the purpose of coordinating the broadcast of marine meteorological information.

Mobile Mobile terminal. In this context the mini-C terminal

MRCC Maritime Rescue Coordination Centre

MSI Maritime Safety Information. Navigational and meteorological warnings, meteorological forecasts and other urgent safety-related messages broadcast to ships.

N

NAVAREA A geographical area established for the purpose of coordinating the broadcast of navigational 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.

PU Position Unreserved

R

RED Radio Equipment Directive

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.

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TCU Terminal Control Unit

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