

SAILOR 6120/30/40/50 System

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SAILOR 6120/30/40/50 System

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 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
Mini-C Terminal	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 Mini-C 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 SAILOR 6120/30/40/50. 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 System, 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 6120/30/40/50 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 easyMail** explains how to set up and use the system with the easyMail application from a connected computer or SAILOR 6007 Message Terminal.
- **Using Distress and SSA buttons** explains how to use connected Distress buttons and SSA buttons.
- **Troubleshooting** contains a short troubleshooting guide and explains how to check the status of the system.

Related documents

The below list shows the documents related to this manual and to the SAILOR 6120/30/40/50.

Ref	Title and description	Document number
[1]	SAILOR 6120/30/40/50 System, Installation manual	98-131589
[2]	SAILOR 6006 and SAILOR 6007 Message Terminal, Installation manual	98-130088
[3]	THRANE 6194 Terminal Control Unit, Installation and user manual	98-131593

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:

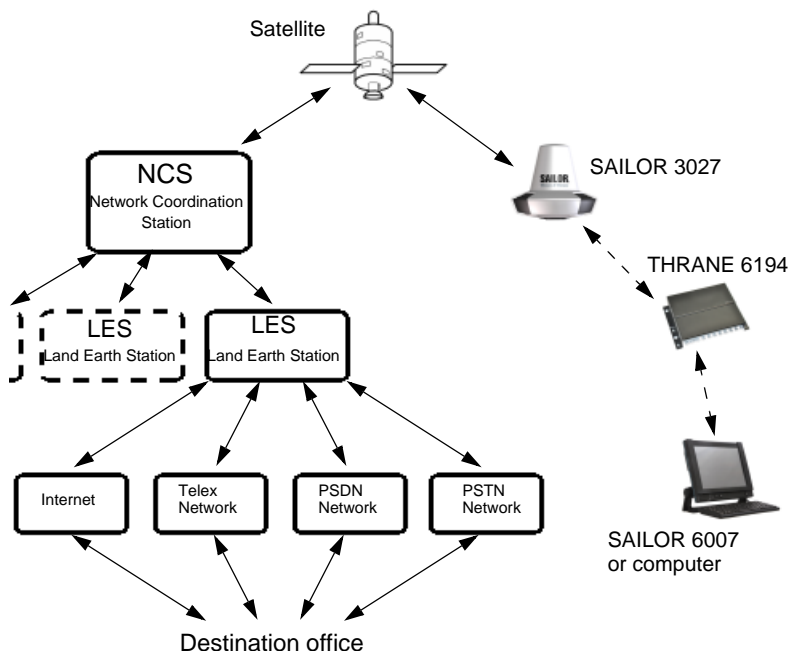
- *System overview*
- *System units*
- *User interface*
- *The Inmarsat C services*

System overview

The SAILOR 6120/30/40/50 Mini-C System

The Inmarsat C satellite network is the link between the SAILOR 6120/30/40/50 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 can work as a standalone system automatically transmitting data on the Inmarsat C network, or you can connect alarm buttons and/or a Message Terminal or a computer through the THRANE 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 omni-directional antenna for the Inmarsat C system. Connects to other equipment, primarily the THRANE 6194, through a CAN interface carrying both power and bi-directional communication.
- THRANE 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 or Message Terminal. The THRANE 6194 comes with the SAILOR 6120 and SAILOR 6150 systems only, but is available for the other systems as well.
- SAILOR 6007 Message Terminal (not included. Can be purchased separately).
When the easyMail program is installed, you can send and receive messages, monitor system status and test the system. The SAILOR 6007 has a touch-screen interface but can also be operated from a connected keyboard.



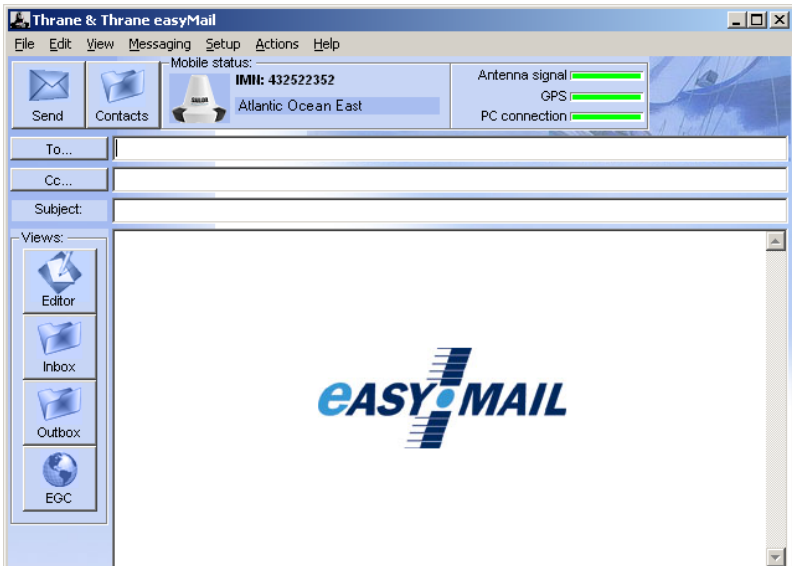
For a more detailed description of the units, refer to the installation manual for the SAILOR 6120/30/40/50 Mini-C System.

User interface

The basic Mini-C System does not have a dedicated user interface. To have a user interface you must connect a THRANE 6194 Terminal Control Unit and a computer or SAILOR 6007 Message Terminal with the easyMail application installed. For details, refer to *SAILOR 6120/30/40/50 System, Installation manual [1]*.

easyMail

easyMail is a user interface for the Mini-C System. With easyMail you can send and receive messages, view system status and configure the system. To use easyMail you must have a THRANE 6194 Terminal Control Unit and a computer or SAILOR 6007 Message Terminal with the easyMail application installed. For information on how to get started with easyMail, see *easyMail application* on page 10.



For details on how to use easyMail, see *Using easyMail* on page 13.

The Inmarsat C services

The SAILOR 6120/30/40/50 supports the following services through the Inmarsat C system. For a description of these services, see the next sections.

- Distress Alerting
- Enhanced Group Call (EGC)
- Message transmission
- Position reporting
- 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 Mini-C 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 System, the report is sent to a DNID (Data reporting Network Identification) that is effectively a mailbox created on some LESes. The Mini-C Terminal sends its reports to this mailbox and other tracking systems can then access and empty the mailbox.

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

Before the position reporting feature can be used the DNID must be created on the LES. 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 start up and log on your SAILOR 6120/30/40/50. It has the following sections:

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

Registration

Before using the SAILOR 3027 Mini-C 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 6120/30/40/50 Mini-C System.

For details on registration, see the Installation manual for the SAILOR 6120/30/40/50 Mini-C System.

After registration you must use a Message Terminal or a computer with the easyMail application to set up the mobile number in the SAILOR 3027. See *Using easyMail* on page 13.

Starting up the system

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

With the Message terminal or a computer with easyMail installed you can see the logon status on screen.

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 using the easyMail application installed on a computer or on a SAILOR 6007 Message Terminal. The computer or the SAILOR 6007 Message Terminal must be connected via the LAN interface in the THRANE 6194 Terminal Control Unit to the Mini-C System.

For SAILOR 6150 systems only, you may also use a SAILOR 6006 Message Terminal. The SAILOR 6006 Message Terminal connects directly to the CAN interface.

easyMail application

Installing easyMail

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

1. Insert the installation CD supplied with the THRANE 6194 into the CD drive of the computer.
The setup program should start up automatically. If not, run the file setup.exe from the CD drive.
2. Click **Install easyMail** and go through the InstallShield Wizard.

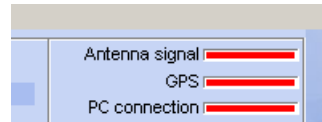
- When the Wizard is complete, you can start the application from the easyMail shortcut on the desktop, or from **Start > Programs > easyMail <version>**.

Accessing your Mini-C Terminal with easyMail

- Acquire a THRANE 6194 Terminal Control Unit, if it is not already part of your system.
- Connect your Mini-C Terminal to the CAN interface on the THRANE 6194 Terminal Control Unit.
- Connect a computer to the RS-232 port or the LAN port of the THRANE 6194 Terminal Control Unit.

Refer to *THRANE 6194 Terminal Control Unit, Installation and user manual [3]* for information on how to connect and set up the interfaces.

- Start the application from the easyMail shortcut on the desktop, or from Start > Programs > Thrane & Thrane > easyMail <version>.
- If the PC connection is not already set up (the PC connection bar is red), see *Setting up PC communication with the Mini-C Terminal* on page 53.



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 *Using easyMail* on page 13.

SAILOR 6006 Message Terminal (SAILOR 6150 only)

To get started with the SAILOR 6006 Message Terminal, do as follows:

1. Acquire a SAILOR 6006 Message Terminal from Thrane & Thrane.
2. Connect the THRANE 6194 to the Mini-C System as described in *SAILOR 6120/30/40/50 System, Installation manual [1]*.
3. Connect the Message Terminal to the CAN interface (T-connector) in the Mini-C System. See *SAILOR 6120/30/40/50 System, Installation manual [1]*.

You can now use the Message Terminal to set up and control the Mini-C System, send and receive messages etc.

Using easyMail

This chapter describes how to operate the SAILOR 6120/30/40/50 using the easyMail application. It has the following sections:

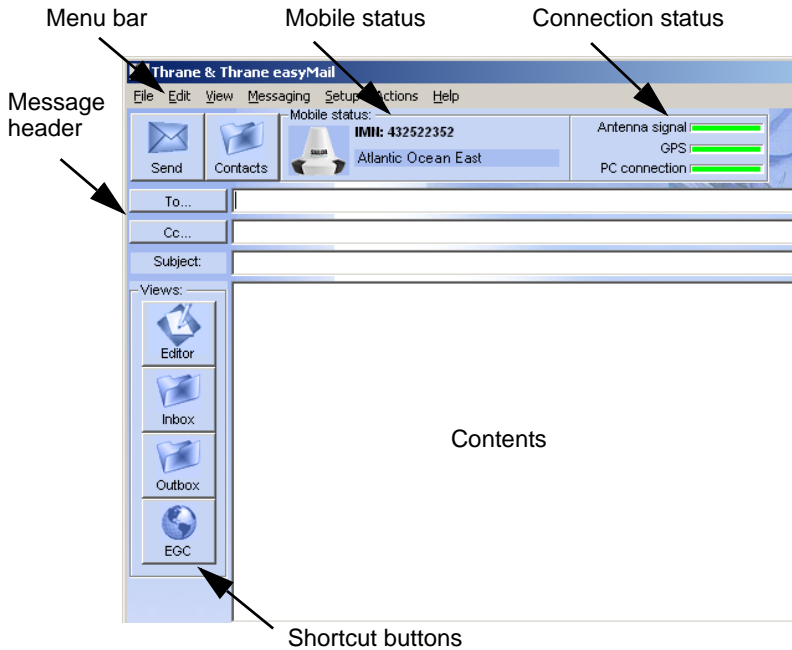
- *Overview of easyMail*
- *Distress functions (only SAILOR 6150)*
- *Working with messages*
- *Position reporting*
- *Receiving EGCs*
- *Network status and settings*
- *Viewing system details*
- *Viewing or changing position information*
- *Viewing status*
- *Viewing the Info log*
- *Setting up the default ISP*
- *Setting up the default LESes*
- *Setting up reception of EGCs*
- *Setting up ENIDs*
- *Setting up the Land Earth Stations (LES)*
- *Setting up the Inmarsat Service Providers (ISP)*
- *Entering the mobile number*
- *Setting the local time*
- *Setting up password protection*
- *Setting the language*
- *Setting up PC communication with the Mini-C Terminal*
- *Setting up easyMail*

Overview of easyMail

For information on how to install and start up easyMail, see *easyMail application* on page 10.

Overview of the screen

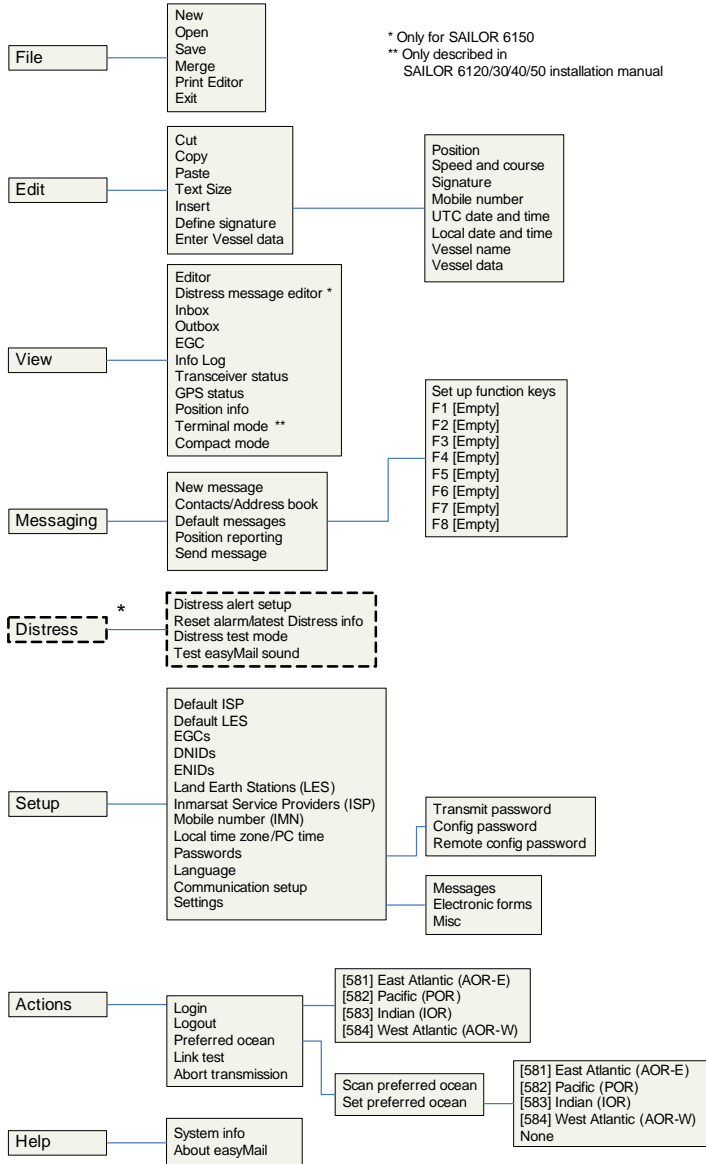
Below is an overview of the main screen in easyMail.



- The **menu bar** holds the menus. For an overview of all menus, see *Menu overview* on page 16

- **Mobile status** shows the status of your Mini-C Terminal. When connected and logged in, this field shows the mobile number (MMI) and the ocean region to which your Mini-C Terminal 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



Distress functions (only SAILOR 6150)

Writing a Distress priority message (only SAILOR 6150)

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 Mini-C Terminal 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**.

Setting 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 *Sending a Distress Alert (SAILOR 6150 only)* on page 60.

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).

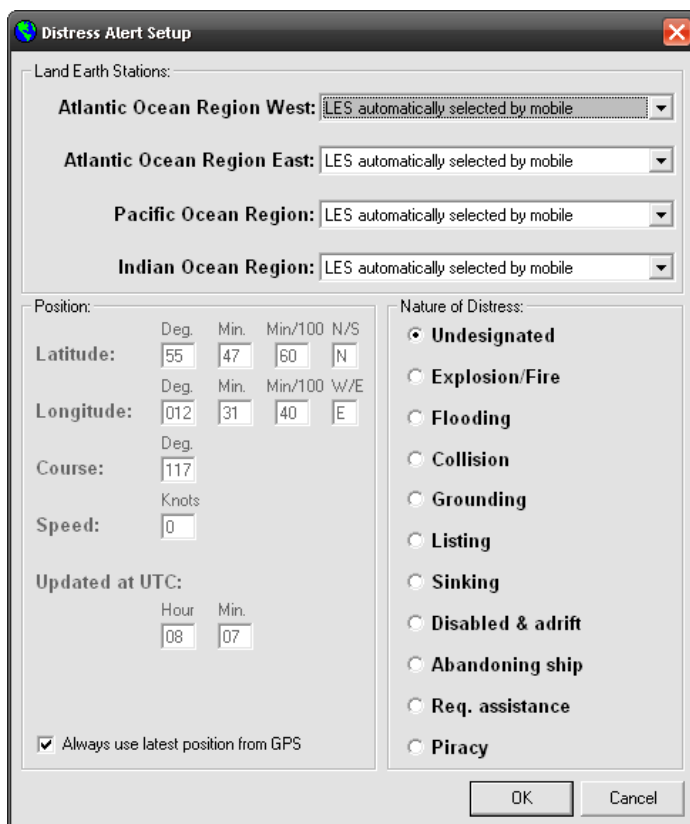
- Distress Alert Position, Course and Speed: Always use latest position from GPS.

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 LESs 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.

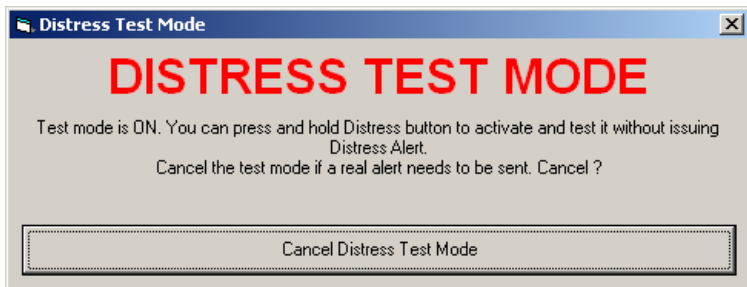
Testing Distress buttons

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 *Sending a Distress Alert (SAILOR 6150 only)* on page 60.
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.

Testing 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.

Working with messages

Preparing the system

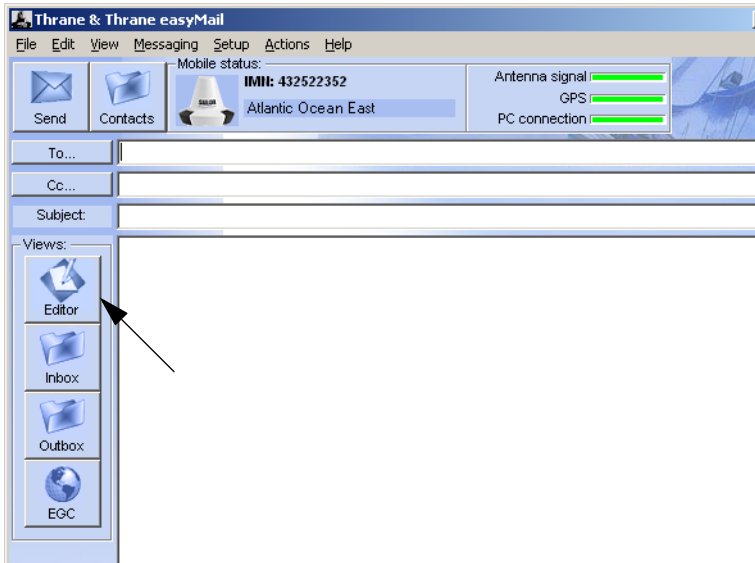
Before you can send a message:

- The recipient of the message must be listed in the Address book. For details, see *Managing the list of Contacts* on page 30.
- The Mini-C Terminal must be logged in to an Ocean Region. Normally the Mini-C Terminal logs in automatically. If it is logged out, see *Logging into and out of the network* on page 38.
- The default ISP must be set.
See *Setting up the default ISP* on page 43.
- Default LESes must be set for all Ocean Regions.
See *Setting up the default LESes* on page 43.
- The mobile number must be configured in the Mini-C Terminal. This is normally set up during installation. If not, see *Entering the mobile number* on page 50.

Writing 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 *Editing your message* on page 25.

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.

Editing 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.

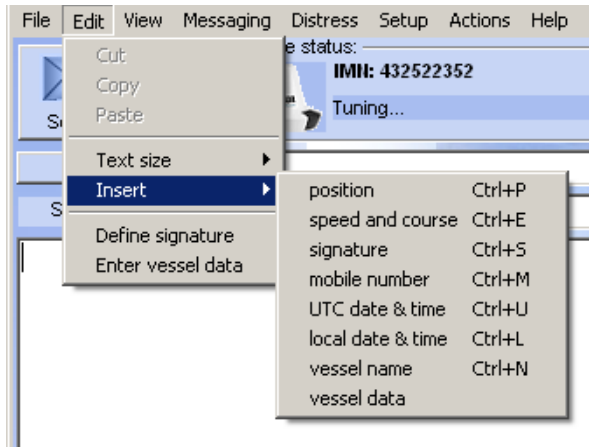
To change text size

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

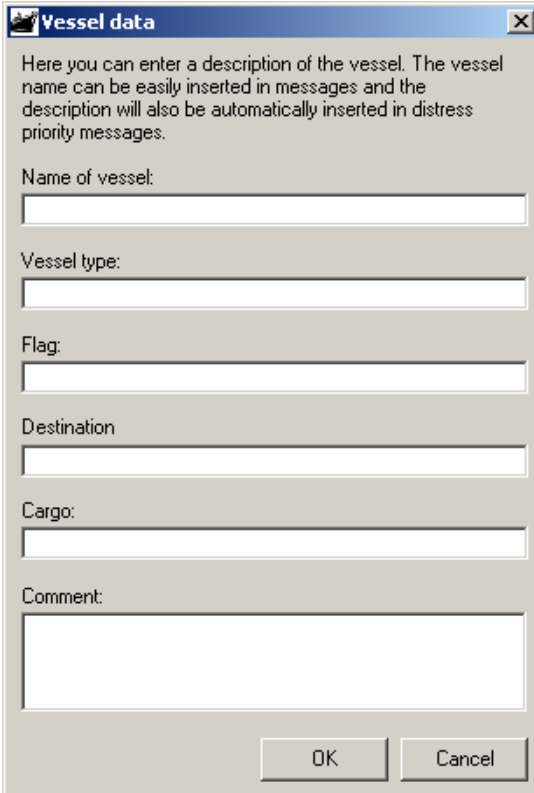
You can enter a signature and your vessel data for later automatic insertion in your messages (see previous section). To define your signature, do as follows:

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 [X]

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**.

Using default messages

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

Creating 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**.

Sending 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.

Viewing messages in the Inbox

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

1. Select **View > Inbox**.

Disk Filename	Modem Filename	LES	Priority	Bits	Date & Time	Size	Ref.No.	Routing
11021702.in	IN.045	104	Routine	5 Bit TELEX	11-02-17 16:52	177	363928	Mem
11021701.in	IN.044	112	Routine	7 Bit IAS	11-02-17 16:37	356	378658	Mem
11020701.in	IN.043	112	Routine	7 Bit IAS	11-02-07 07:47	173	958263	Mem
11020301.in	IN.042	103	Routine	5 Bit TELEX	11-02-03 09:23	94	975596	Mem
11011205.in	IN.041	104	Routine	7 Bit IAS	11-01-12 12:52	353	770927	Mem
11011204.in	IN.040	104	Routine	7 Bit IAS	11-01-12 12:49	353	770791	Mem
11011203.in	IN.039	101	Routine	7 Bit IAS	11-01-12 12:31	353	769414	Mem
11011202.in	IN.038	104	Routine	7 Bit IAS	11-01-12 12:23	353	768880	Mem
11011201.in	IN.037	104	Routine	7 Bit IAS	11-01-12 12:13	151	767975	Mem
11011110.in	IN.036	101	Routine	5 Bit TELEX	11-01-11 12:46	116	669242	Mem
11011109.in	IN.035	104	Routine	5 Bit TELEX	11-01-11 12:35	116	668471	Mem
11011108.in	IN.034	104	Routine	7 Bit IAS	11-01-11 12:02	142	665421	Mem
11011107.in	IN.033	101	Routine	7 Bit IAS	11-01-11 11:56	142	664941	Mem
11011106.in	IN.032	104	Routine	7 Bit IAS	11-01-11 11:50	142	664522	Mem
11011105.in	IN.031	104	Routine	7 Bit IAS	11-01-11 10:05	231	656459	Mem
11011104.in	IN.030	101	Routine	7 Bit IAS	11-01-11 09:50	231	655171	Mem
11011103.in	IN.029	104	Routine	7 Bit IAS	11-01-11 09:46	231	654877	Mem
11011102.in	IN.028	104	Routine	7 Bit IAS	11-01-11 09:38	231	654165	Mem
11011101.in	IN.027	104	Routine	7 Bit IAS	11-01-11 08:59	231	651324	Mem

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)**

Viewing sent messages (Outbox)

After writing a message and selecting Send, you can see the message and the status of the message in the Outbox

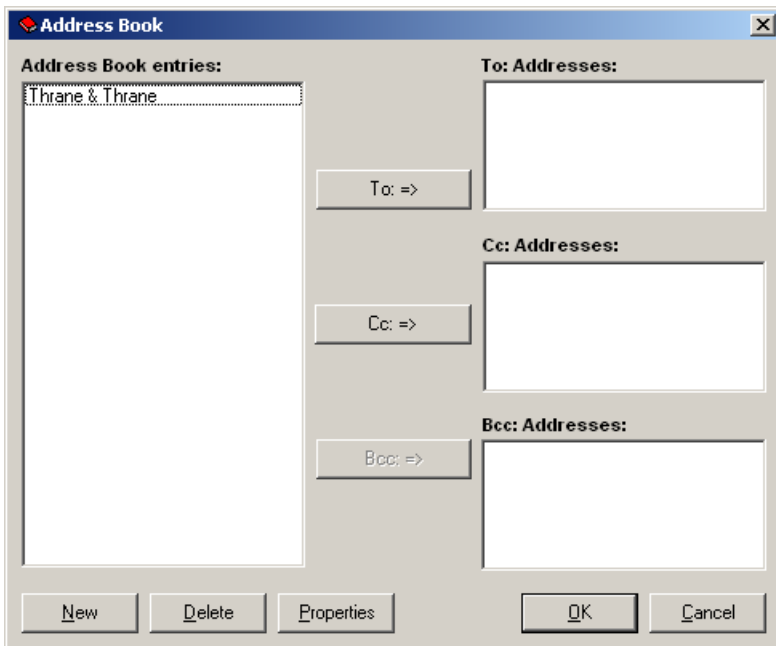
To view messages in the Outbox, select **View > Outbox**.

Managing the list of Contacts

To manage your list of contacts, click



or select **Messaging > Contacts/Address book**.

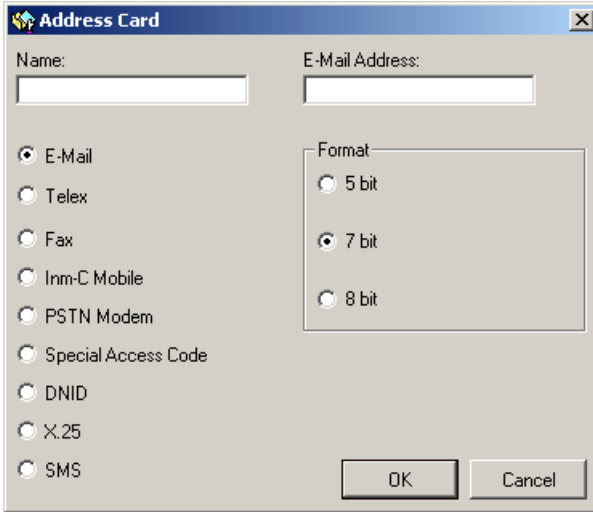


To see details for a contact, select it and click **Properties**.

To add a new contact

Do as follows:

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



The screenshot shows the 'Address Card' dialog box. It has a title bar with the text 'Address Card' and a close button. The dialog is divided into several sections. At the top, there are two text input fields: 'Name:' and 'E-Mail Address:'. Below the 'Name:' field, there is a vertical list of radio buttons for selecting an address type: 'E-Mail' (which is selected), 'Telex', 'Fax', 'Inm-C Mobile', 'PSTN Modem', 'Special Access Code', 'DNID', 'X.25', and 'SMS'. To the right of the 'E-Mail Address:' field, there is a 'Format' section with three radio buttons: '5 bit', '7 bit' (which is selected), and '8 bit'. At the bottom right of the dialog, there are two buttons: 'OK' and '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@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	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

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

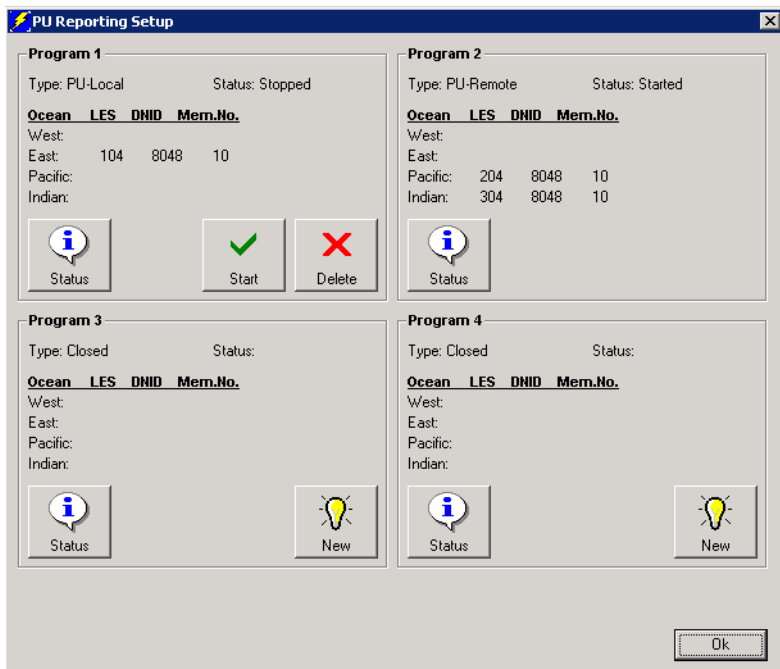
For general information on the position reporting service, see *Position reporting* on page 7.

Note

To be able to use the position reporting feature, a DNID must be downloaded and enabled in the Mini-C Terminal. See *Setting up ENIDs* on page 45.

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 Mini-C Terminal. 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.

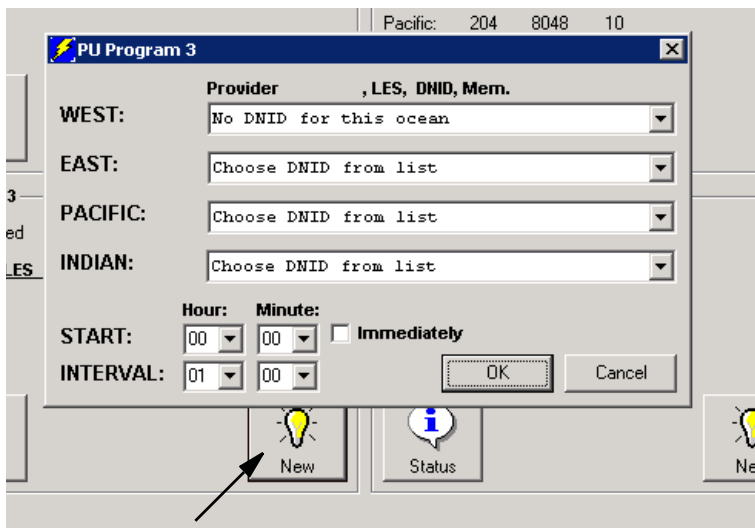
To start a program that is already defined, do as follows:

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 Mini-C Terminal 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.

Receiving EGCs

Viewing incoming EGCs

You can receive various types of EGCs in easyMail. For details about how to set up which EGCs to receive, see *Setting up reception of EGCs* on page 44.

Note

To be able to receive FleetNET EGCs, an ENID must be downloaded and enabled in the Mini-C Terminal. See *Setting up ENIDs* on page 45.

Note

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

To view EGCs, do as follows:

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

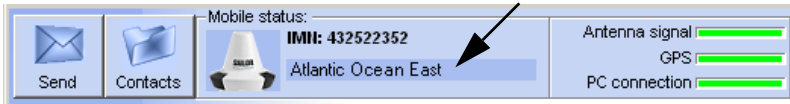
Disk Filename	Modem Filename	LES	Service	Priority	Bits	Date & Time	Size	Ref.No.	Routing
11032908.egc	EGC.467	121	MET.NAV Warning/Forecast	Safety	7 Bit IA5	11-03-29 04:33	416	21430	Mem
11032908.egc	EGC.466	112	MET.NAV Warning/Forecast	Safety	7 Bit IA5	11-03-28 21:39	5670	14567	Mem
11032907.egc	EGC.465	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	4381	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 Mini-C Terminal is logged in to the network, this field shows the ocean region to which the Mini-C Terminal is logged in.



Logging 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 Mini-C Terminal, 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**.

Scanning 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.

Setting 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 *Writing a routine priority message* on page 23.

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.

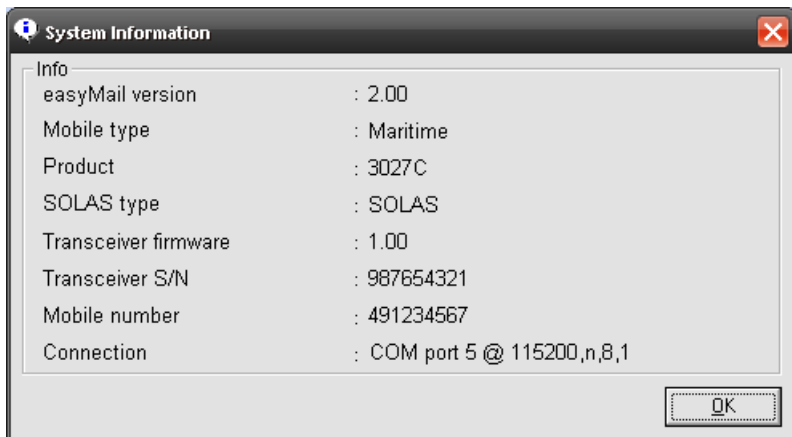
Stop Transmission

If you want the system to immediately stop transmitting, select **Actions > Abort transmission**.

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

Viewing system details

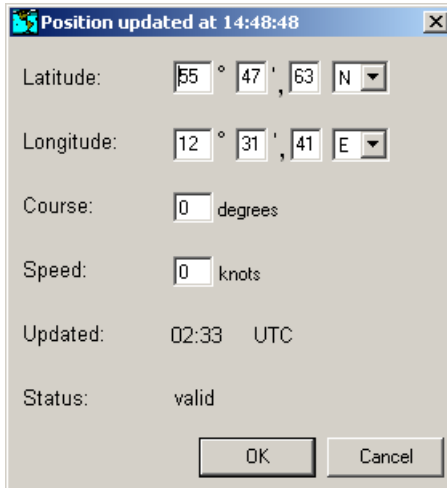
To see information on easyMail and the Mini-C Terminal, click  or select **Help > System info**.



Viewing or changing position information

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

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



The screenshot shows a dialog box titled "Position updated at 14:48:48". It contains the following information:

- Latitude: 55 ° 47 ' 63 N
- Longitude: 12 ° 31 ' 41 E
- Course: 0 degrees
- Speed: 0 knots
- Updated: 02:33 UTC
- Status: valid

At the bottom of the dialog box are two buttons: "OK" and "Cancel".

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

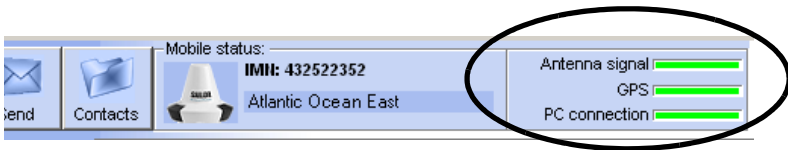
The manually entered position data will be used by the system until the automatic position data is available again.

Viewing status

To see the status of the Mini-C Terminal, 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



Viewing 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.

Setting 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 LESs to ISP settings** if you want to use the default ISP with the Default LESes.
4. Click **OK**.

Setting up the default LESes

To set up the default LESes, do as follows:

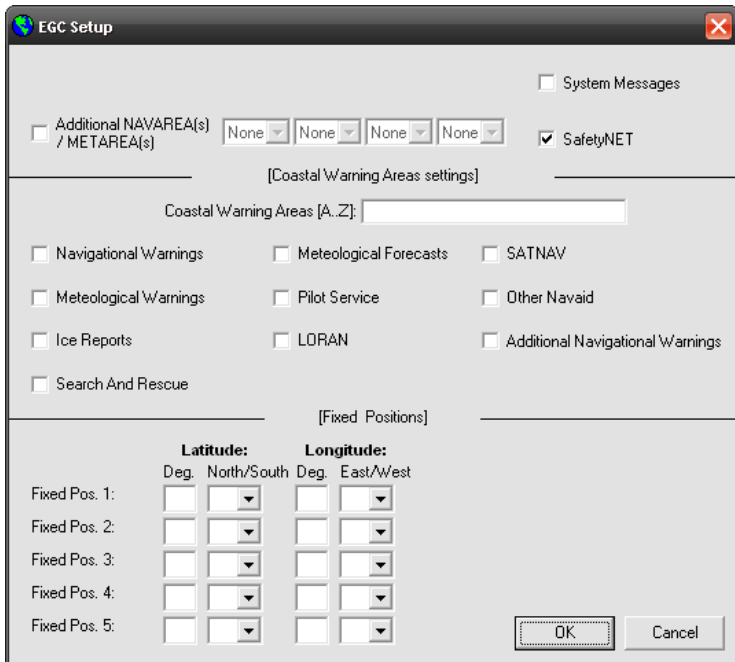
1. Select **Setup > Default LES**.
2. Select the default LES for each ocean region.
3. Click **OK**.

Setting up reception of EGCs

For general information on EGCs, see *Enhanced Group Calling (EGC)* on page 6.

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**.

Setting up ENIDs

ENIDs (EGC Network IDentification) are used for identifying the Mini-C Terminal 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 Mini-C Terminal 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**.

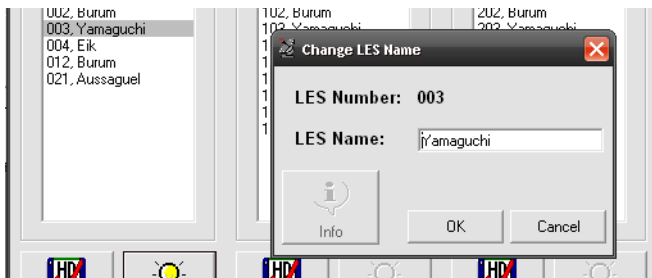
Setting up the Land Earth Stations (LES)

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 LESs

The table below shows the LESs 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
KDDI SatMail-C Japan	003	103	203	303
Morsviazsputnik Russia	-	117	-	317
OTE Greece	-	120	-	305
SingTel Mail65 (SAC65)	002	102	210	328
SingTel Mail65 (SAC6500)	002	102	210	328
SingTel Mail65 (SAC6599)	002	102	210	328
Stratos Global C-email 02	002	102	202	302
Stratos Global C-email 12	012	112	212	312
Telemar X.25	004	104	204	304
Vizada SkyFile C 01	001	101	201	301
Vizada SkyFile C 04	004	104	204	304
Vizada SkyFile C 21	021	121	221	321

Setting up the 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 Mini-C Terminal, 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:

- CTTC China
- KDDI SatMail-C Japan
- Morsviazputnik Russia
- OTE Greece
- SingTel Mail65 (SAC65)
- SingTel Mail65 (SAC6500)
- SingTel Mail65 (SAC6599)
- Stratos Global C-email 02
- Stratos Global C-email 12
- Telemar X25
- Vizada SkyFile C 01
- Vizada SkyFile C 04
- Vizada SkyFile C 21

To: TO: []

Cc: CC: []

Bcc: []

Subject: SUBJECT: []

Message Prefix: STX: []

Address Type: SAC []

Address: EMAIL []

Delimiter: ; []

SMS prefix: [] Postfix: []

SMS SAC: []

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**.

Entering the mobile number

Before you can use the Mini-C Terminal on the Inmarsat C network you must configure the mobile number from your service provider in the Mini-C Terminal.

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**.

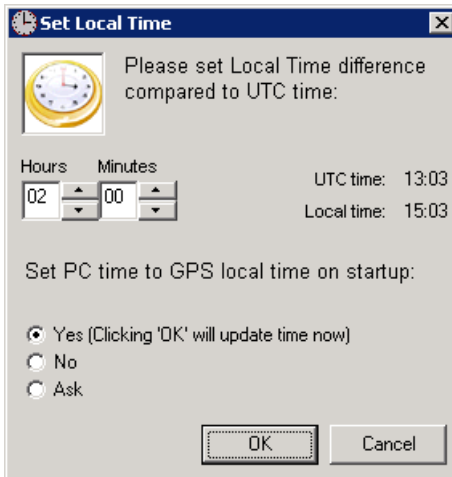
The number is now stored in the Mini-C Terminal and can be used to access the Mini-C Terminal on the Inmarsat C network.

Setting the local time

The Mini-C Terminal 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**.

Setting 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.

Setting 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**.

Setting up PC communication with the Mini-C Terminal

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

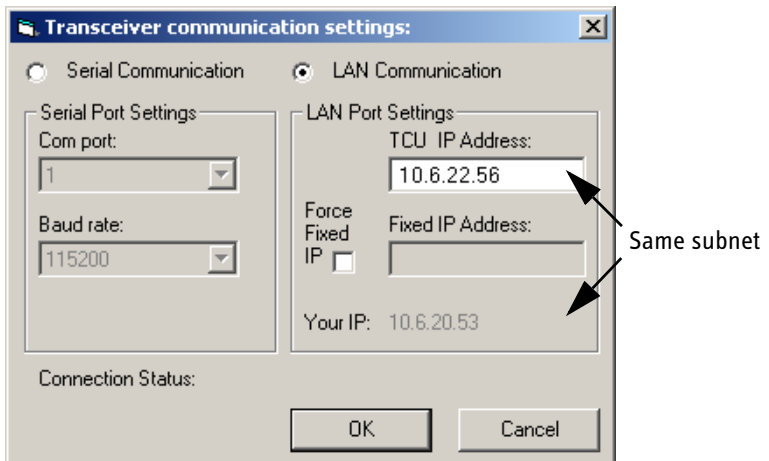
Note

The Communication setup is not accessible when the computer has established a connection with the Mini-C Terminal.

To set up LAN communication

To set up easyMail for LAN communication with the THRANE 6194 and thereby the Mini-C Terminal, do as follows:

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



3. Type in the **IP address** of the THRANE 6194 Terminal Control Unit (TCU). You can find the IP address in two ways:

- Using the SNMP upload program, described in *Updating software* on page 63.
- By pressing the Temporary fixed IP address button on the THRANE 6194. The IP address of the THRANE 6194 is temporarily set to 169.254.100.100.

Your IP: Shows the IP address of your PC. **Make sure your PC is on the same subnet as the TCU!** This means the two first sections of the IP address (10.6. in the example picture above) must be the same on the TCU as on your PC.

4. If you want to set the THRANE 6194 to a fixed IP address for your next easyMail session, select **Force fixed IP** and type in the IP address you want to use.

Important

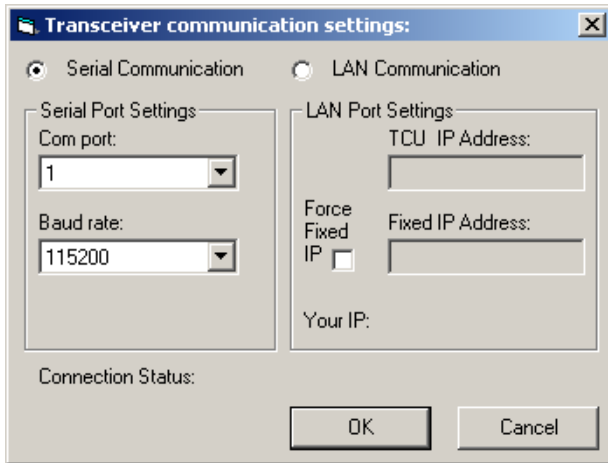
Before clicking OK, make sure the IP address of your PC is on the same subnet as the new TCU IP address.

5. Click **OK**.
easyMail now tries to establish a connection to the THRANE 6194 and thereby the Mini-C Terminal. 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 THRANE 6194 and thereby the Mini-C Terminal, 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 THRANE 6194 (default is 115200).
4. Click **OK**.

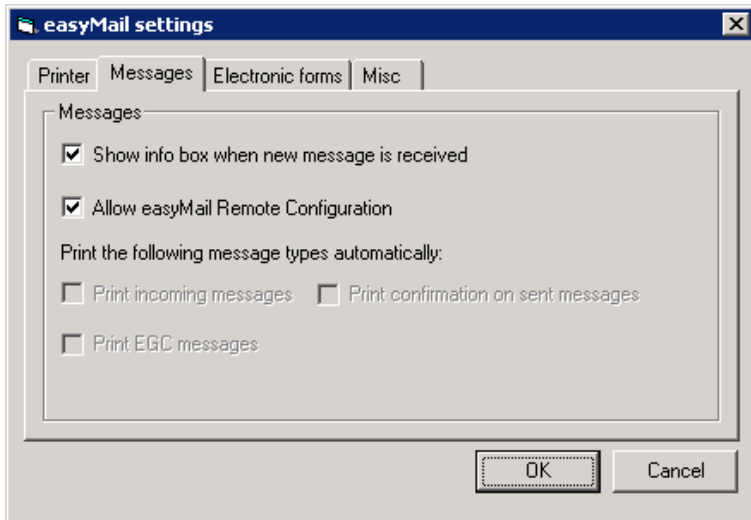
easyMail now tries to establish a connection to the THRANE 6194 and thereby the Mini-C Terminal. When the RS-232 connection is established the PC connection bar at the top of the easyMail window turns green.

Setting 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 Mini-C Terminal. To see the list, press F12.

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

Using Distress and SSA buttons

This chapter describes how to use the 6108 Non-SOLAS Alarm Panel and the SSA buttons. It has the following sections:

- *Sending a Distress Alert (SAILOR 6150 only)*
- *Using SSA buttons (SAILOR 6120 only)*

Sending a Distress Alert (SAILOR 6150 only)

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 6108 Non-SOLAS Alarm Panel 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.

When the Distress alert is acknowledged, the button light goes off shortly every 15 seconds.

You must have either a Message Terminal or a computer with easyMail in a SAILOR 6150 system. Use the Message Terminal or easyMail to see the status of the Distress and to follow up. See *Distress functions (only SAILOR 6150)* on page 17.

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 *Writing a Distress priority message (only SAILOR 6150)* on page 17.

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 *Setting up Distress alert* on page 17.

Clearing 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 one of the following:

- **Message Terminal:** Select **Distress > Status > Clear distress indications**.
- **easyMail:** Select **Distress > Reset alarm/Latest Distress info**.

Using SSA buttons (SAILOR 6120 only)

The recipient(s) of the Ship Security Alert must be configured in the Mini-C Terminal 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 Mini-C Terminal as described in *THRANE 6194 Terminal Control Unit, Installation and user manual* [3].

Sending 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. Press the button.
 - **Instant activation button:** When pressed, an alert is sent immediately to the configured SSA recipient(s).
 - **Standard activation buttons:** When pressed, an alert is sent after 30 – 33 seconds. If released (pressed again) within the 30 seconds, the alert is not sent. If the alert button is not released SSA Messages will be retransmitted every 30 minutes, until the button is released.



Using 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.

Troubleshooting

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

- *Getting support*
- *Updating software*
- *Troubleshooting guide*

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.

Updating software

Required tools and files

Before you can update the software you must get a download tool and the new software for the Mini-C Terminal.

Do as follows:

1. Open your browser and log into the Thrane &Thrane Extranet.
2. Find and download the zip file containing the Thrane &Thrane **SNMP upload** application.
3. Extract the files to **C:\Thrane** (create the folder if it is not already there). Remember to select **Use folder names**.
4. On the Extranet, find the new software image for the Mini-C Terminal (.tiif file).
5. Download the .tiif file to the folder **C:\Thrane\TFTP-Root** (this folder should be created automatically when you extract the files from the zip file).

Updating the Mini-C Terminal software

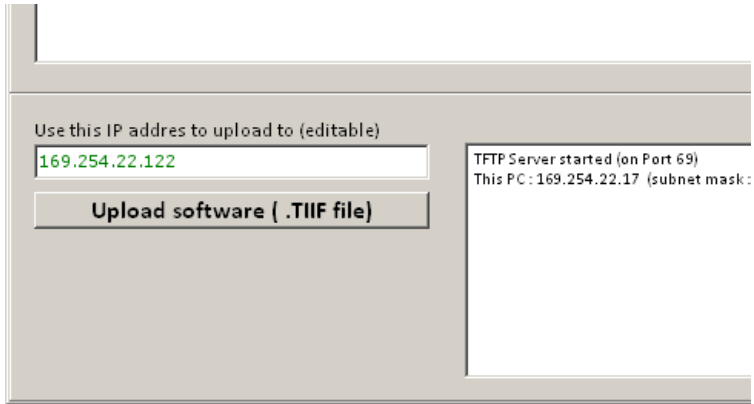
Get the download tool and the new software as described in the previous section. Then do as follows:

1. Connect the Mini-C Terminal to the THRANE 6194 Terminal Control Unit and connect your computer to the LAN port on the THRANE 6194.
2. Start the SNMP upload tool (.exe file) placed in C:\Thrane\.
3. The application searches for units connected to the local network. When a unit is found, it is listed with IP address, description, serial number and software version.

Note

It may take some time for the Mini-C Terminal to appear in the list.

- When the Mini-C Terminal appears in the list you can check the current software version in the **sw-version** column. If there are more than one Mini-C Terminal you can recognize your unit by the serial number.
- Click on your Mini-C Terminal to select it.
- When the IP address of your Mini-C Terminal appears in the small field in the bottom left corner, click the button **Upload software (.TIIF file)**.



- Browse to the .tif file in C:\Thrane\TFTP-Root\.
- Select the file and click **Open**.

The software is now updated and the Mini-C Terminal automatically restarts with the new software. You can use the SNMP upload application again to check the software version as in step 4 above.

Troubleshooting guide

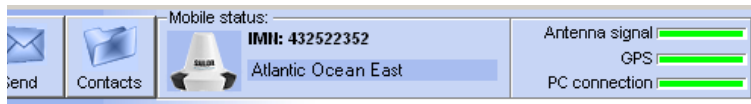
The below table provides information on some of the problems that might occur, including possible causes and remedies to solve the problems.

Problem	Possible cause	Remedy
SAILOR 6150 only: 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.	<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>
SAILOR 6150 only: No connection between SAILOR 6006 and SAILOR 3027	The LAN cable between the THRANE 6164 and the SAILOR 6006 or the CAN cable between the SAILOR 3027 and the THRANE 6194 is damaged or is not properly connected.	Make sure the cables are properly connected and that the cables and connectors are not damaged.
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>Setting up PC communication with the Mini-C Terminal</i> on page 53.

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.

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 www.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 6120/30/40/50 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.

Conformity

The Mini-C Systems SAILOR 6120, SAILOR 6130, SAILOR 6140 and SAILOR 6150 are CE certified (R&TTE directive) as stated in “Declaration of Conformity with R&TTE Directive”, enclosed in electronic copy on the next pages (one declaration for each system).

Thrane & Thrane A/S

Declaration of Conformity with R&TTE Directive

The undersigned of this letter declares that the following equipment complies with the specifications of EC directive 1999/5/EC concerning Radio & Telecommunications Terminal Equipment.

Equipment included in this declaration

TT-6120A	SAILOR 6120 SSA System consisting of:	
TT-3027SSA	SAILOR 3027 SSA Terminal	PN = 403027SSA
TT-6194A	THRANE 6194 Term. Ctrl. Unit	PN = 406194A
And		
TT-6100-913	SAILOR 6100-913 SSA Kit	PN = 406100-913
or		
TT-6100-916	SAILOR 6100-916 SSA US Kit	PN = 406100-916

The system will exist in a SAILOR, SAM and HIGHLANDER variant and NEUTRAL variant for other OEMs. The only difference is in labeling and extension in PN.

Equipment Applicability

The TT-6120A SAILOR 6120 SSA System is a Non SOLAS system without Distress capability that provides global data communication and tracking information through the Inmarsat satellite service world wide between a vessel and any destination in the world.

Declaration

The requirement with respect to the LVD directive 73/23/EC is met by conforming to the harmonized EU standard EN 60950. The protection requirement with respect to the EMC directive 89/336/EC is met by conforming to the harmonized EU standard EN 60945. Effective use of frequency spectrum is met by conforming to the harmonized EU standard ETSI EN 301 426 and ETSI ETS 300 460.

Manufacturer

Thrane & Thrane A/S
Lundtoftegårdsvej 93D, DK-2800 Kgs. Lyngby, Denmark
Porsvej 2, DK-9200 Aalborg SV, Denmark

Place and Date

Kgs. Lyngby, 13. May 2011


Walther Thygesen, CEO
Thrane & Thrane A/S



Doc. no. 99-133104-A

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Page: 1 of 1



Thrane & Thrane A/S

Declaration of Conformity with R&TTE Directive

The undersigned of this letter declares that the following equipment complies with the specifications of EC directive 1999/5/EC concerning Radio & Telecommunications Terminal Equipment.

Equipment included in this declaration

TT-6130A SAILOR 6130 LRIT System consisting of:
 TT-3027LT SAILOR 3027 LRIT Terminal PN = 403027LT

The system will exist in a SAILOR, SAM and HIGHLANDER variant and NEUTRAL variant for other OEMs. The only difference is in labeling and extension in PN.

Equipment Applicability

The TT-6130A SAILOR 6130 LRIT System is a Non SOLAS system without Distress capability that provides global data communication and tracking information through the Inmarsat satellite service world wide between a vessel and any destination in the world.

Declaration

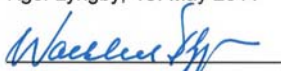
The requirement with respect to the LVD directive 73/23/EC is met by conforming to the harmonized EU standard EN 60950. The protection requirement with respect to the EMC directive 89/336/EC is met by conforming to the harmonized EU standard EN 60945. Effective use of frequency spectrum is met by conforming to the harmonized EU standard ETSI EN 301 426 and ETSI ETS 300 460.

Manufacturer

Thrane & Thrane A/S Lundtoftegårdsvej 93D, DK-2800 Kgs. Lyngby, Denmark
 Porsvej 2, DK-9200 Aalborg SV, Denmark

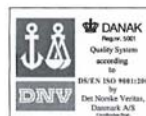
Place and Date

Kgs. Lyngby, 13. May 2011


 Walther Thygesen, CEO
 Thrane & Thrane A/S



Doc. no. 99-133103-A



Thrane & Thrane A/S

Declaration of Conformity with R&TTE Directive

The undersigned of this letter declares that the following equipment complies with the specifications of EC directive 1999/5/EC concerning Radio & Telecommunications Terminal Equipment.

Equipment included in this declaration

TT-6140A SAILOR 6140 Maritime System consisting of:
 TT-3027M SAILOR 3027 Maritime Terminal PN = 403027M

The system will exist in a SAILOR variant and NEUTRAL variant for OEMs. The only difference is in labeling and "-NEU" extension in PN.

Equipment Applicability

The TT-6140A SAILOR 6140 Maritime System is a Non SOLAS system without Distress capability that provides global data communication and tracking information through the Inmarsat satellite service world wide between a vessel and any destination in the world.

Declaration

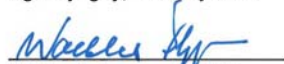
The requirement with respect to the LVD directive 73/23/EC is met by conforming to the harmonized EU standard EN 60950. The protection requirement with respect to the EMC directive 89/336/EC is met by conforming to the harmonized EU standard EN 60945. Effective use of frequency spectrum is met by conforming to the harmonized EU standard ETSI EN 301 426 and ETSI ETS 300 460.

Manufacturer

Thrane & Thrane A/S Lundtoftegårdsvej 93D, DK-2800 Kgs. Lyngby, Denmark
 Porsvej 2, DK-9200 Aalborg SV, Denmark

Place and Date

Kgs. Lyngby, 13. May 2011

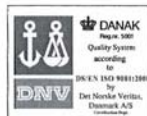


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Doc. no. 99-133102-A

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Thrane & Thrane A/S

Declaration of Conformity with R&TTE Directive

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Equipment included in this declaration

TT-6150A	SAILOR 6150 Non SOLAS System consisting of:	
TT-3027D	SAILOR 3027 Non SOLAS Terminal	PN = 403027D
TT-6108A	SAILOR 6108 Distress Panel	PN = 406108A
And		
TT-6006A	SAILOR 6006 Message Terminal	PN = 406006A
TT-6001A	SAILOR 6001 Keyboard	PN = 406001A
Or		
TT-6194A	THRANE 6194 Term. Ctrl. Unit	PN = 406194A

The system will exist in a SAILOR, SAM and HIGHLANDER variant and NEUTRAL variant for other OEMs. The only difference is in labeling and extension in PN.

Equipment Applicability

The TT-6150A SAILOR 6150 Non SOLAS System is a Non SOLAS system with Distress capability that provides global data communication and tracking information through the Inmarsat satellite service world wide between a vessel and any destination in the world.

Declaration

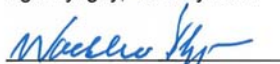
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Manufacturer

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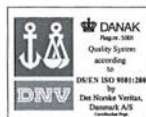
Place and Date

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Walther Thygesen, CEO
 Thrane & Thrane A/S

Doc. no. 99-133101-A



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Version 2, June 1991

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- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Version 2.1, February 1999

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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.

CD Compact Disk. An optical disc used to store digital data.

D

DNIC Data Network Identification Code

E

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

ENID EGC Network IDentification. An identification code used for reception of EGCs.

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 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 Maritime Satellite Organisation. An intergovernmental body established to ensure that Inmarsat continues to meet its public service obligations.

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.

M

METAREA	The geographic areas in which various governments are responsible for meteorological warnings.
mobile	Mobile terminal. In this context the Mini-C Terminal
MRCC	Maritime Rescue Co-ordination 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 Co-ordination 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.
PU	Position Unreserved

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.
SNMP	Simple Network Management Protocol. An Internet-standard protocol for managing devices on IP networks. It is used mostly in network management systems to monitor network-attached devices for conditions that warrant administrative attention.
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

TCU	Terminal Control Unit
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