# Table of contents

1. **INTRODUCTION** ......................................................................................................................... 3

2. **Inmarsat C terminal** .................................................................................................................. 3  
   2.1 **LES IDs** ................................................................................................................................. 3  
   2.2 **Emails** .................................................................................................................................... 3  
   2.3 **User Guide** ............................................................................................................................... 4

3. **shore to ship messaging** .......................................................................................................... 4

4. **ship to shore message** .............................................................................................................. 4

5. **EGC – Fleetnet and safetynet** .................................................................................................. 5

6. **Polling and data reporting** ....................................................................................................... 5

7. **Actions summary** ..................................................................................................................... 6

8. **Need Support?** ......................................................................................................................... 8
1. INTRODUCTION

The Inmarsat C migration process depends on the type of services used by the vessels and by the shore-based customers.

This document describes the possible situations and the different steps to follow to technically migrate vessels and services to Marlink’s infrastructures.

Some additional user-guides might be provided by Marlink’s Service Desk in case of necessity or for very specific Inmarsat C usages.

2. INMARSAT C TERMINAL

It is requested to start using Marlink’s Inmarsat C infrastructure as soon as possible.

Marlink manages 2 Inmarsat C teleports. Both can be used indifferently. They are providing the same range of services at the same rate and they have the same manufacturer (Cobham / Thrane&Thrane)

2.1 LES IDs

On an Inmarsat C, the selection of a Land Earth Station (LES) is done by the LES-IDs. Here are the ones to be selected to use Marlink’s infrastructures:

<table>
<thead>
<tr>
<th></th>
<th>AOR-W</th>
<th>AOR-E</th>
<th>POR</th>
<th>IOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aussaguel Teleport (France) LES-ID 21</td>
<td>021</td>
<td>121</td>
<td>221</td>
<td>321</td>
</tr>
<tr>
<td>EIK Teleport (Norway) LES-ID 04</td>
<td>004</td>
<td>104</td>
<td>204</td>
<td>304</td>
</tr>
</tbody>
</table>

2.2 Emails

Depending on the type of Inmarsat C terminals used onboard the vessel, it might be necessary to select the LES-ID and the Special Access Code used for contacting the email platform at the LES.

The Special Access Code used for sending emails in conjunction with the LES-ID is “SAC28”

In terms of email Service Providers available in Inmarsat C messaging program, the user might find different wording and labels depending of the version of the software used onboard the vessel.

For Aussaguel Teleport, it might be possible to find “France Telecom” “FT SkyFile C” “Vizada” or “Aussaguel”

For Eik Teleport, it might be possible to find “Telenor 04” “Eik global” or “Eik SkyFile C”

All of them are valid as long as the LES-ID used is “21” or “04”
2.3 User Guide

Marlink provides a document guiding the user along the steps for using Marlink’s teleports. It is available at https://marlink.com/radio-holland-inmarsat-c-and-fleet-migration/

3. SHORE TO SHIP MESSAGING

Terrestrial users can use indifferently Aussaguel or EIK Teleport to send Shore to Ship messages. Accessing Inmarsat C Land Earth Stations request to be registered and to get a PIN code (Personal Identifier, name used for Aussaguel Teleport) or a User-ID, name used for EIK Teleport.

PIN/User-ID are the identifiers (Username and Password) allowing the user to access the systems. In all cases (messaging, emails, FleetNet or Polling) one of them is necessary. It can be requested with Marlink Service Desk.

To make the access to Inmarsat C services easier, Marlink provides a web-tool from where the registered users can send messages, poll commands, FleetNet or SafetyNet group calls. The web-portal is accessible via https://www.internet-c.com/

Please contact your Key Account Manager for assistance.

4. SHIP TO SHORE MESSAGE

As mentioned before, sending ship to shore messages via Marlink’s infrastructure just requires selecting the correct LES-IDs (21 or 04) and the correct SAC for email (28).

Mobile’s customers using Special Access Code must be informed that:

- SAC relating to security and assistance (33 – 41 – 44) are available in all Land Earth Stations all over the world as required by IMO and Inmarsat. Therefore, they are also valid at Aussaguel and EIK. Of course, the routing of the messages might be different, depending on the local regulations or the local agreements. For instance, weather observations sent to SAC41 via Aussaguel Teleport will be routed to Meteo France.

- Customized SAC; Inmarsat C users might use customized SAC for commercial or technical purposes. These SAC’ might be available on one LES only. Customers having in place customized SAC needs to contact Marlink Service Desk or Radio Holland to have them created at EIK and/or Aussaguel Teleport.
5. SSAS MESSAGES

To avoid roaming charges it is strongly recommended to update the settings of all SSAS Inmarsat C terminals.

Per definition, an SSAS terminal is locked on one Land Earth Station, used for sending SSAS Test Messages and SSAS Alert Messages to the shore-side. The LES-IDs have to be updated into each SSAS terminal.

For Cobham and Sailor terminals this operation can be done either remotely, via the LocPoint web-application provided by Cobham/Sailor (contact your supplier for more information) or by a local reconfiguration executed by a technician, an engineer or crewmember onboard of the ship.

The current LES-IDs must be replaced by the LES ID 21 (021 – 121 – 221 -321) for Aussaguel/France Teleport usage or by LES ID 04 (004 – 104 – 204 – 304) for Eik/Norway Teleport usage. The SSAS message destination addresses can remain the same.

Take the opportunity of this operation to check the validity of the destination addresses which might have changed since the last update.

Should you require any assistance with the execution of the procedure a complete user guide can be downloaded via https://marlink.com/radio-holland-inmarsat-c-and-fleet-migration/ or you can contact Marlink Service Desk via ServiceDesk@marlink.com.

6. EGC – FLEETNET AND SAFETYNET

FleetNet and SafetyNet services (Group call) are mandatory services provided by all Inmarsat C Service Providers and Teleports. EGC protocols are the same everywhere. There are no changes required in the format of the commands sent by the EGC Service Providers.

FleetNet messages can be sent via Marlink Internet C web-portal. To facilitate the migration, we recommend using our web-portal to send FleetNet messages https://www.internet-c.com/

Please contact your Key Account Manager for assistance.

7. POLLING AND DATA REPORTING

Polling and Data Reporting services require pre-configuration of the Inmarsat C devices within Marlink infrastructure. The so-called “DNID” key, has to be downloaded in all Inmarsat C devices having position reports to be done via Marlink’s Teleport. This operation is mandatory and has to be done during the migration process.

The registration of the DNID is done either by Marlink’s Service Desk or by the Customer. In general, the Polling and Data Reporting services are managed by Aussaguel Teleport. This is the location where the high majority (80%) of the Polling and Data Reporting traffic is done.

Polling and Data Reporting access requires a pre-configuration of the mobiles and the registration of the user into our infrastructure.

The migration for Polling and Data Reporting services requires a direct contact with the customers. The procedures are a bit different if the customer is being using “commercial tracking” or tracking relating to local regulations like “VMS” (Vessel Monitoring System) for fishing vessels reporting to a local Fishing Monitoring Center.

Please contact your Key Account Manager for assistance.
8. IP/TELNET WITH AUSSAGUEL TELEPORT

Marlink provides documentation providing guidance to the registered customers for using Aussaguel Teleport via IP/Telnet protocol.

They are available for consultation and downloading here https://marlink.com/radio-holland-inmarsat-c-and-fleet-migration/

9. ACTIONS SUMMARY

<table>
<thead>
<tr>
<th>Services</th>
<th>Actions</th>
<th>Teleport</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ship to shore message</td>
<td>Select the right LES-IDs</td>
<td>Up to user to select one of the 2 Teleports, Aussaguel or EIK</td>
</tr>
<tr>
<td></td>
<td>- Aussaguel: 21</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Eik: 04</td>
<td></td>
</tr>
<tr>
<td>Ship to shore email</td>
<td>Additionally, select the correct SAC for emails and SMS</td>
<td>28 for EIK and Aussaguel</td>
</tr>
<tr>
<td>Ship to shore official SAC</td>
<td>Select the LES-IDs</td>
<td>All official SAC’s are accessible via EIK or Aussaguel</td>
</tr>
<tr>
<td></td>
<td>- Aussaguel: 21</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Eik: 04</td>
<td></td>
</tr>
<tr>
<td>Ship to Shore customized SAC</td>
<td>A contact with Marlink is necessary to verify the availability of the SAC and possibly to register it with an associated routing</td>
<td>Aussaguel and/or EIK</td>
</tr>
<tr>
<td>Shore to Ship message/email</td>
<td>- The user must get a PIN-code or a User-ID for accessing Marlink’s infrastructure</td>
<td>Aussaguel and/or EIK</td>
</tr>
<tr>
<td></td>
<td>- Contact Marlink’s Service Desk</td>
<td>- Internet C web-portal</td>
</tr>
<tr>
<td>Shore to Ship FleetNet or SafetyNet</td>
<td>- The user must get a PIN-code or a User-ID for accessing Marlink’s infrastructure</td>
<td>- Aussaguel and/or EIK</td>
</tr>
<tr>
<td></td>
<td>- Contact Marlink’s Service Desk</td>
<td>- Internet C web-portal</td>
</tr>
<tr>
<td></td>
<td>- Creation of an ENID by Marlink</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Specific user guide to be provided</td>
<td></td>
</tr>
<tr>
<td>Shore to Ship Polling and Data Reporting</td>
<td>- The user must get a PIN-code or a User-ID for accessing Marlink’s infrastructure</td>
<td>- Aussaguel as primary choice</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Internet C web-portal</td>
</tr>
</tbody>
</table>
| **Commercial and corporate tracking** | - Contact Marlink’s Service Desk  
- Creation of a DNID by Marlink  
- Downloading of a DNID on all ships belonging to the same fleet by Marlink or by the customer  
- To be manage case by case | - DataTrack web-portal |
|---|---|---|
| **Shore to Ship**  
Polling and Data Reporting  
Regulations such as VMS | - The user must get a PIN-code or a User-ID for accessing Marlink’s infrastructure  
- Contact Marlink’s Service Desk  
- Creation of a DNID by Marlink  
- Downloading of a DNID on all ships belonging to the same fleet by Marlink or by the customer  
- to be manage case by case | - Aussaguel as primary choice  
- Internet C web-portal  
- DataTrack web-portal |
| **SSAS** | The LES-IDs for SSAS testing and alerts must be updated. This action requires a human/local action onboard the vessel or the usage of LocPoint from Cobham if the device is a Sailor one. | Aussaguel or EIK |
10. NEED SUPPORT?

If you have any questions, please contact your Key Account Manager or Marlink Service Desk:

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