



# **SENC Distribution Management End User Information**

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This document is originated and maintained by C-MAP. All comments and requests for changes shall be addressed to:

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# 1. Introduction

The following pages describe the C-MAP ENC Service now offered by C-MAP Norway A/S. The CM-93/3 ENC database contains ENC charts from Hydrographic Offices worldwide, verified and compiled into the CM-93/3 format. This allows end-users to load the database without any need for on-board conversion.

## ***1.1 ENC/SENC Information – The C-MAP Cartographic Service***

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All OEM's are required as part of the Specification of Minimum performance to include a written description of the C-MAP cartographic service in their user manuals. This document gives information on the principles of ENC and SENC as well as describing how the user should register his system (if applicable), order charts (ENC) and apply licenses.

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The system that you are now using has the capability of using and displaying the latest C-MAP CM-93/3 Worldwide and ENC vector chart databases. The ENC database charts are fully compliant with the latest IHO S-57 3.1 specifications and, when using this CM-93/3 ENC database (SENC) in an approved ECDIS, are considered equivalent to the navigational charts required by the SOLAS (Safety Of Life At Sea) convention.

In order for an ECDIS to be the legal equivalent of paper charts, the following conditions must be true:

- The ECDIS must be type-approved.
- The system must be complete with a type-approved back-up system, that must enable instant and safe take-over of navigation and continuation of the voyage if an ECDIS malfunction occurs (the back-up system may range from a radar with additional navigational function, to be used together with paper charts, to a second, fully compliant ECDIS).
- The system must display official ENC, issued by a national Hydrographic Office in original form or in SENC format (CM-93/3).
- The ENC must be up to date.

If the system complies with all above requirements, it is considered equivalent to the navigational charts required by the SOLAS (Safety Of Life At Sea) Convention, meaning that paper charts do not have to be carried on board. However, as soon as the system fails to match one of the requirements, the legal equivalency decays. In particular, a type-approved ECDIS displaying data other than official ENC (such as vector chart supplied by a data producer other than an Hydrographic Office, or raster charts issued by an Hydrographic Office) is *not* equivalent to paper charts; in this case, the mariner should not rely on the ECDIS as the only source of navigational information, and updated paper charts must be available on board.

In order to prepare the system for use with the C-MAP CM-93/3 database, there are a number of things that will first need to be carried out: -

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### ***1.1.1 Registration of the system at C-MAP Norway.***

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#### Aladdin eToken Method

If you have received an Aladdin eToken USB dongle with your software you will not need to register or send any files to C-MAP Norway. When you order ENC charts please always quote the System ID shown on the key ring attached to the dongle.

#### PC Fingerprint method

If you do not have an Aladdin eToken dongle your chart licences will be issued by C-MAP Norway based on a hardware "fingerprint" of the PC. When a system is installed that has the capability to use the CM-93/3 SENC database, a file called USER.USR will be automatically created (normally in the Program Files\CM93v3 SDK directory). This file contains the Company ID and System ID assigned to the ECDIS/ECS system when it is installed. These ID's can be found on the back of the installation CD box or on a sticker placed on the equipment. This file must **always** be sent to C-MAP Norway by email ([license@c-map.no](mailto:license@c-map.no)). Licenses can only be generated once this file has been received and registered by C-MAP. It is important to note that the software may need to be reinstalled and reinitialised if the operating system or hardware is upgraded (see the troubleshooting section). In some cases the manufacturer of the system will have already pre-registered the system.

If, when installing a new system, you do not know your Company ID or System ID, please contact C-MAP Norway before continuing installation of the software.

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### ***1.1.2 Ordering Charts***

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It is very possible that charts will not be ordered together with the registration of the system as described above. It is therefore essential that as much information as possible is sent to C-MAP when ordering charts for a system. Charts can be ordered by Zone, Area or Cell or portfolio. Portfolios of charts can be defined and ordered by using the C-MAP Product Catalogue application. Standard portfolios can be seen on our Internet pages at [www.c-map.no](http://www.c-map.no). Prices quotations can be obtained via your chart dealer or direct from your local C-MAP office. Once the license order has been prepared it should be emailed to ([license@c-map.no](mailto:license@c-map.no)) or faxed to C-MAP Norway AS (+47 51464701).

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### ***1.1.3 Applying Licenses***

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Once the order has been received at C-MAP, a license will be generated and transmitted back to the user. This may be in the form of a single alphanumeric string (16 characters), or in the form of a file called PASSWORD.USR containing one or more license strings. Once these licenses have been received they should be input using the License Administrator application or the software designed for this purpose by the ECDIS/ECS manufacturer. There are two types of licenses, purchase and subscription. The ENC database is only available on a subscription basis. Purchase licenses are valid indefinitely while subscription licenses need to be renewed each 12 months from the start of the subscription. Failure to renew a subscription will result in the charts becoming unavailable (see section 2.8.5).

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### **1.1.4 Updating SENC**

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It is a requirement from Primar Stavanger that as a minimum the SENC database must be updated once per week either by CD or automatic update download via Internet or RAS. The installed SENC database shall be updated with chart corrections in one of two different ways: -

1. CD-ROM: According to your subscription conditions C-MAP Norway will supply you with a new ENC database once per week. This CD-ROM contains the complete and updated ENC SENC database and replaces completely all-previous versions. The new CD-ROM is installed into your ECDIS system by the database administrator option and the SENC data will automatically be checked for authenticity. Please see your ECDIS user manual for more details on installation.
2. Internet, RAS or email: Your SENC subscription entitles you to automatically download chart corrections by connecting to the Internet, C-MAP Remote Access Server (RAS), or by email. Once connected, charts updates are downloaded and applied to the SENC database automatically with a log of all changes being available on the update menu. If your system supports email updating you should prepare an update order and email this directly to [updates@c-map.no](mailto:updates@c-map.no). The update server will automatically process the request and reply to the email with the updates attached. The updates are split into 1,44MB files to allow them to be copied over to floppy disks.

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### **1.1.5 License Expiry**

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If you are using an updated CM-93 SENC database together with a type approved ECDIS it is considered equivalent to the navigational charts required by the SOLAS (Safety Of Life At Sea) Convention. It is the responsibility of the ships personnel to ensure that the charts are updated at the beginning of each voyage. It is also the responsibility of the ship owners or Management Company to ensure that all invoices are duly paid ensuring that the chart database is always available and that the "timeout" of the chart database does not occur.

Your SENC subscription license entitles you to use the purchased charts for a period of twelve (12) months from subscription start. Two months prior to the end of each subscription period you will receive a new invoice for the next subscription period. Once the invoice is paid you will be sent new licenses extending your subscription for the next 12 months.

Two months prior to the licenses expiring, your ECDIS will start to display warning messages. These messages will appear every time you start the ECDIS or once every 24 hour period. The messages will inform you that unless the SENC licenses are renewed detailed charts will no longer be available after the expiry date. If the subscription is not renewed after the license expiry period and detailed charts are no longer displayed, C-MAP will issue temporary licenses, upon request, in order for the vessel to navigate to the destination port.

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### ***1.1.6 Troubleshooting***

If you are having problems installing your software or charts please check the following before calling the C-MAP support line: -

- You are installing on Windows XP, Windows NT, Windows 2000 or Windows 98 second edition. The system will not normally run under Windows 95 or Windows 98 first edition.
- That you have registered the SENC database in the GDBADMIN application.
- That the registered SENC database is available and has not been deleted.
- That you have correctly input the license string(s).
- That you have not reinstalled Windows or any major hardware components. If you have done this you will probably need to reinstall your software.
- That your licenses have not expired.

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### ***1.1.7 Contact Information***

For information or help please call you're nearest C-MAP Office (details can be found on the reverse side of the C-MAP chart CD box) or contact C-MAP Norway: -

C-MAP Norway AS  
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