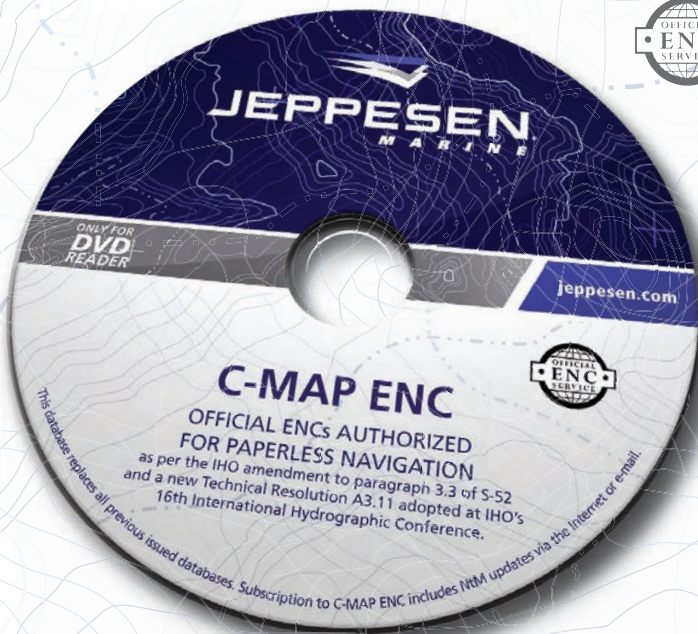




C-MAP ENC

jeppesen.com



Product and Services Guide

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Introduction

This Product and Services Guide provides basic generic information on registering databases, applying licenses and updating your ENC's. However, the manufacturer of your equipment may have implemented these routines in a slightly different way. For detailed instructions on how to install, license and start using the ENC databases for your specific system, please refer to the manufacturer's equipment user guide.

C-MAP ENC

An ENC is a vector chart that conforms to the IHO S-57 international exchange format, complies with the IHO ENC Product Specification, and is provided with updates that give NtM corrections and other critical changes. They refer to World Geodetic System 1984 Datum (WGS84), and are approved for electronic navigation. ENC data facilitates unique functionality that improves the safety of navigation at sea.

C-MAP ENC is composed of ENC's prepared for distribution in Jeppesen's SENC format, and complies with all requirements and regulations for electronic navigation. Paperless navigation can be realized, provided that chart carriage regulation requirements are satisfied. The C-MAP ENC product is compiled into one single database and distributed on one single DVD.

Jeppesen's SENC distribution

This product is distributed in Jeppesen's SENC format, CM-93/3. SENC distribution makes the ENC's available and secure in a data format ready to be used on the ECDIS, and is supported by the majority of ECDIS brands on the market.

Main benefits of distribution in Jeppesen's SENC format

- Worldwide coverage on 1 DVD
- No compilation from S-57 to SENC onboard
- No verification of complied data onboard
- Comprehensive updating service
- DNV type approved

Jeppesen's SENC format is highly optimized for easy installation and use. The ENC data supplied in SENC format can be loaded straight into the system without the need to be compiled. Before distributing the C-MAP ENC product,

all ENC's are verified in a controlled environment by industry standard verification software. In this way the navigator will not be facing errors during the installation phase. SENC distribution provides the most cost effective and timesaving transfer of chart data to the vessel, both by physical media (DVD) and online communications such as VSAT.

Subscription

Database structure

HOs supply ENC's in a cell structure where you are being charged for each ENC. Cells may have different coverage depending on the scale and amount of data they contain. Some few HOs prefer to distribute ENC's in collections that contain several cells covering larger areas. The cell structure allows you to order coverage in accordance with individual needs.

Coverage

Jeppesen Marine can supply extensive worldwide coverage. The production of ENC's has increased considerably during the last years, and will continue to do so into the future.

Note: *To get an up-to-date overview of available ENC coverage from Jeppesen Marine, please download the free version of our Chart Catalog, available on www.jeppesen.com/marine.*

Licensing

A license is required to view ENC's on the screen. There are two different options to obtain licenses for the C-MAP ENC.

By means of:

- C-MAP Chart Catalog
- C-MAP Dynamic Licensing

The C-MAP Chart Catalog can be used to plan and order the ENC's that are needed for the next license period or next voyage. Jeppesen Marine will return the license codes, which need to be entered into the system to get access to the ENC's. C-MAP Dynamic Licensing gives you immediate access to new ENC's by panning and zooming on the screen, or by navigating the vessel into a new area, without any preordering process being required.

Licensing by means of the C-MAP Chart Catalog

The C-MAP Chart Catalog allows you to view, select and order ENC's from the C-MAP ENC database in an interactive way. It provides an overview of all ENC's necessary for the intended voyage.

Register your license code

Jeppesen Marine sends out licenses in the form of a PASSWORD.USR file attached to an email.

Each ENC has its own license code, which consists of a string of 16 hexadecimal characters ranging from 1 to 9 and A to F.

You should apply the license using the option in the ECDIS to "Import from file". When using this method you do not have to insert the license codes manually. Please follow your manufacturer's equipment user guide for detailed instructions.

Note: *If you are using a separate PC, please transfer the file PASSWORD.USR or text string into the ECDIS via a USB memory stick or other transfer media.*

Subscription Period

The subscription period is defined as the 12 month period from the date on which the first ENC is ordered and every 12 months thereafter. All ENC's included in the subscription, regardless of time of ordering, expire on the same date.

License Period

As a basic a 12 months subscription is required. Within this period new ENC's may be licensed for periods of 3 or 6 months, or until expiry date of your basic subscription. Due to limitations set by some HOs, the license period for some few ENC's can only be set to 12 months.

Licensing new ENC's

License to new ENC's can be obtained in two different ways depending on your needs:

- You can order additional ENC's to your basic 12 months subscription. All the additional ENC's will have the same expiry date, and be included in the renewal process. If you are halfway or more into your current license period, a discount will be offered.

- As an alternative, you can order new ENC's for a period of 3 or 6 months. Jeppesen recognizes that all 3 and 6 month licenses are for limited use only, and therefore we do not send out renewal reminders.

Please contact your local Jeppesen Marine office for more information.

To order new ENC's:

1. Complete an order form for the C-MAP ENC.
2. Use the C-MAP Chart Catalog to select ENC's and to generate an order file. See the Help-function in the Chart Catalog for more details.
3. E-mail both the order form and order file to your local Jeppesen Marine office. You can also send the order via your chart distributor.

Please remember to include all required information such as the IMO number of the ship, invoicing and delivery addresses.

Within a few working hours after receiving the order, Jeppesen Marine will send you the required license code(s). If for any reason the license codes are not received, please contact your local Jeppesen Marine office, or your chart distributor.

Note: *The order form and the C-MAP Chart Catalog can be found on www.jeppesen.com/marine.*

Renewal of subscription

Jeppesen Marine will send you a renewal reminder prior to the expiry date (applicable only for 12 month subscriptions). Attached to this e-mail is a C-MAP chart catalog order file (.clo) showing your current ENC portfolio. Please reply to this e-mail to confirm your portfolio for the next license period. Upon receipt of your reply, Jeppesen Marine will immediately issue a new license to ensure uninterrupted access to the ENC data.

In addition to this reminder e-mail, a warning message will appear on the screen prior to the expiry date and inform you that the license needs to be renewed.

Note: *After a certain time after the expiry date of the licenses, the C-MAP ENC database will no longer be displayed. It is therefore very important that Jeppesen Marine receives the renewal confirmation in good time so as to ensure continuity of the service.*

Non-renewal of subscription

To terminate a subscription license (applicable only for 12 month subscriptions), please return a completed non-renewal form to your local Jeppesen office, or

contact your chart distributor. Jeppesen Marine needs to be informed about the termination at least 3 months before the renewal date.

The non-renewal form can be found on www.jeppesen.com/marine. If by any reason you don't have this form available, you can contact your local Jeppesen office and inform about the subscription termination.

C-MAP Dynamic Licensing

Dynamic Licensing is a user-friendly and cost-effective method of licensing ENC's. The service ensures time-limited licenses to all required ENC's along a route. You will get immediate access to new ENC's by panning and zooming on the screen, or by navigating the vessel into a new ENC area, without any preordering process required.

Benefits include:

- ENC access in seconds automatically
- No preordering process required
- Pay as you go using pre-set budgets and spending limits

***Note:** Dynamic Licensing is only valid for newer ECDIS systems supporting this functionality*

License Period

You can choose the license period based on your requirements. The options are 3, 6 or 12 months. Due to limitations set by some HO's, the license period for some few ENC's can only be set to 12 months.

Licensing new ENC's

Depending on the ECDIS system, there will be different options to get licenses to new ENC's. The validity of each ENC license is individual. The expiry date is then based on the date when the ENC is first activated. To prevent uncontrolled licensing costs, a credit limit has to be set. Immediate access to new ENC's is also restricted to the defined Zones.

Reporting

You do not have to manually report ENC usage to Jeppesen Marine. When connecting to the online service for updating the ENC's, a full report on new ENC's obtained since the last report is automatically generated and sent to Jeppesen Marine.

Activating C-MAP Dynamic Licensing

To start a dynamic licensing subscription, you have to complete the C-MAP Dynamic Licensing order form, and send it to your local Jeppesen Marine office or your chart distributor. The order form regulates important issues such as the subscription area (Zones), Credit Limit, Invoice Limit and Invoice Period. Upon receipt of the order, Jeppesen will send an e-mail to confirm your access to this service.

The order form is available on www.jeppesen.com/marine, or by contacting Jeppesen Marine.

Note: To activate this service for first time, please refer to the *Dynamic Licensing Quick Start Guide* from Jeppesen, and to your relevant manufacturer's equipment user guide.

C-MAP Update Service

Depending on your requirements, technical outfit and communication capacity, you can choose different options to keep your onboard databases updated.

Note: It is important that you keep the C-MAP ENC updated on a weekly basis by installing a new version of the ENC database. To keep the database more frequently updated, Jeppesen Marine publishes updates every working day.

C-MAP Update Service	Distribution	Updates (ER-files)	New ENCs	New Editions of ENCs
DVD	DVD	X	X	X
Online +	HTTP	X	X	X
Online	HTTP and E-mail	X		

Note: The ENC subscription fee includes unlimited use of the C-MAP Update Service with the exception of the airtime cost.

New version of database

Jeppesen Marine releases a new version of C-MAP ENC database including new ENCs, new editions of ENCs and updates on a weekly basis. You can choose two different options of how to update the database; either by installing a new update DVD or by using the Online+ service.

You can check the status for the latest database releases on our web site.

C-MAP Update Service DVD

The database is distributed via DVD (you decide the frequency). Please note that this database should be installed immediately after receiving the DVD. Your existing licenses will still be valid and you do not need to request new licenses from Jeppesen Marine.

***Note:** If you receive more than one updating DVD at the same time, you only need to install the most recent one.*

C-MAP Update Service Online+

To be able to update the database wherever and whenever, Online+ is the best option. This service enables you to renew your database via an online connection via the Internet. Please note that this service requires bandwidth of high quality and capacity. In addition to updating the database using Online+, Jeppesen recommends that you receive an updated DVD at least every 4 months.

For a free download of the Online+ Service, please visit
www.jeppesen.com/marine.

***Note:** In addition to regular installing a new database by means of a new DVD or Online+, Dynamic License customers have to update the database using C-MAP Update Service Online!*

Updates (ER-files)

C-MAP Update Service Online

In addition to installing a new version of the database frequently, you can apply daily updates via the Online service. The updates are made available via online communication (e-mail or Internet/ HTTP). This service is implemented in all ECDIS systems based on Jeppesen technology. Please follow your manufacturer's equipment user guide for detailed instructions. New ENC's and new editions of ENC's are not included in this service, and have to be received regularly via DVD or Online+.

***Note:** Updates for a previous edition of an ENC will stop when there is a new edition included in the database. To receive updates to new editions and new ENC's, please be sure to have a new database installed on a regular basis.*

ENC supplemented with Jeppesen's non-ENC charts

Full global coverage of ENC data is not available as of today. Jeppesen Marine has various solutions for ensuring worldwide coverage of vector charts on your ECDIS. We can supply ENCs where available and non-ENC charts where there is no ENC coverage. Please contact your local Jeppesen Marine office for further information on which is the best solution for your ECDIS.

It is important to note that non-ENC charts may not be used as a replacement for paper charts even if used on a type approved ECDIS, and should only be used as a navigational aid. This data however, facilitates the full functionality of an ECDIS.

An ECDIS will always inform the user if a non-ENC chart is being used.

If your ECDIS supports supplementary data, you will also have access to see the following types of information:

- Weather Forecasts*
- Pirate Activity information*
- Tides (incl. Tidal Streams)
- SAR (Search and Rescue information)
- GMDSS (Global Maritime Distress Safety System)
- C-Routes (Route planning)
- Topology (3D-effect)
- Improved background and overview charts

*Weather Forecasting and Pirate information services requires licensing, please contact your local Jeppesen Marine office or your chart distributor for price/license information.

Contact information

For support please contact Jeppesen Marine or your chart distributor.
For question related to hardware, we advise you to contact your system supplier.

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