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Dynamic Licensing and TECDIS

TECDIS includes full support of Jeppesen Marine's Dynamic Licensing solution for ENC charts in C-MAP SENC format. Dynamic Licensing provides a cost-effective method for ensuring continual vessel ENC coverage with minimal overhead and administrative costs.

Traditional ENC Licensing

Previously, the only way to acquire ENC charts for paperless navigation has been to purchase subscriptions for all ENC charts required by the vessel in advance. Activating the ENC charts on the vessel requires license codes to be entered on the onboard ECDIS systems, both initially and each time the chart licenses expire. Typically, each required ENC chart is licensed for a 12 month period, regardless of whether the vessel actually makes use of the ENC chart or not.

What is Dynamic Licensing?

Dynamic Licensing is a subscription agreement between the vessel operator and Jeppesen Marine that gives the vessel immediate access to ENC charts within the subscription area. The subscription incurs no immediate costs to the operator. Once the subscription agreement is active, the vessel ECDIS systems will provide immediate access to any ENC charts required within the subscription area, either for planning or monitoring. There is no need to enter any license codes.

Credit Limit

To prevent uncontrolled licensing costs, the subscription agreement includes a yearly credit limit based on estimated yearly costs for the vessel. When an ENC chart is licensed by the ECDIS system, the licensing cost for the chart is subtracted and the credit limit is reduced accordingly. This credit limit can be extended whenever needed.

Automatic licensing

When the vessel requires access to a new ENC chart, the system immediately activates a 3 month license for the chart¹. If the vessel again requires access to the same ENC chart after this period, a new 3 month license is activated. This means that an ENC chart subscription is only purchased at the time the vessel actually requires the chart, and the 3 month licensing period ensures that no subscription costs are incurred when the vessel has no need for the chart.

¹ Some Hydrographic Offices requires 12 month subscription periods for all of their ENC charts. For these charts, 12 month licenses are generated.



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Reporting usage

The activated ENC chart licenses are automatically reported back to Jeppesen Marine whenever the vessel uses the C-MAP Update Service Online to download corrections to the ENC charts. Since the chart update process is required for paperless navigation, this does not require any additional work for the bridge personnel.

Invoicing

Based on the reported actual ENC chart usage, Jeppesen Marine invoices the vessel operator for the licensing costs. This can either be done periodically, or whenever the total outstanding amount exceeds the maximum invoicing amount defined in the subscription agreement.

Benefits over traditional ENC chart licensing

Dynamic Licensing provides a clear cost advantage over traditional ENC licensing:

- Traditional ENC licensing requires predicting which ENC charts will be required by the vessel. Since ENC charts are only licensed when the vessel actually requires the chart with Dynamic Licensing, no charts not needed by the vessel are licensed.
- Traditional ENC licensing typically provides 12 month licenses for ENC charts. Since Dynamic Licensing generates 3 month licenses for ENC charts, licensing costs for charts that are only required periodically or for shorter periods are lowered significantly.

Dynamic Licensing provides a clear operational advantage over traditional ENC licensing:

- There is no need to predict future ENC chart requirements for the vessel, or to purchase chart licenses in advance.
- Activating new ENC licenses requires no chart licensing codes that need to be entered on the ECDIS systems.
- Usage reports are returned to Jeppesen Marine automatically during chart updating, an operation that is performed routinely regardless of licensing method.

To summarize, use of Dynamic Licensing ensures that ENC chart licensing costs are minimized, and administration of chart licenses is handled automatically by the system, reducing the workload both for bridge personnel and for vessel operators.

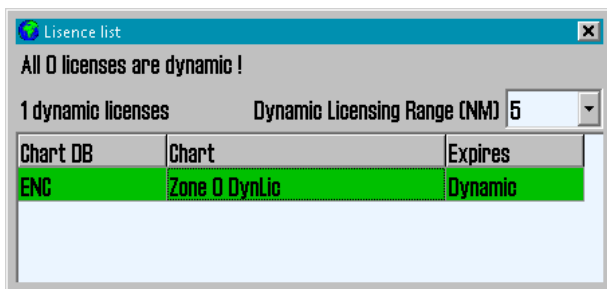


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Using Dynamic Licensing in TECDIS

After a dynamic licensing agreement is made between Jeppesen Marine and the vessel operators, this feature is automatically activated in TECDIS the next time the C-MAP Update Service Online is used.

After activation, ENC charts will automatically be licensed for all required charts within a specified distance of the vessel². This ensures that ENC coverage is always available for the vessel location, and that early route planning or spurious chart requests does not result in ENC licensing costs.



The current state of the dynamic licensing agreement (credit limit, last usage report and next reporting deadline) can be monitored by accessing the chart licenses interface in TECDIS and clicking on the dynamic license entry in the list (TECDIS Operators Guide chapter 3.2).

When the credit limit is lower than 200 credits or the next reporting deadline is within 3 days, this is reported to the operator as warnings in the alarm system. When the credit limit is exhausted or the reporting deadline has been exceeded, this is reported to the operator as alarms in the alarm system (TECDIS Operators Guide chapter 5.5).

Lists of dynamically licensed ENC charts (both reported and unreported) can be viewed in the C-Map Chart Manager, available in the “Chart Installation / Misc” folder in the TECDIS Setup program (TECDIS Operators Guide chapter 7.4).

Adjusting the distance limit for automatic ENC licensing

To adjust the distance limit for automatic ENC licensing, the TECDIS Service key is needed. When the TECDIS Service key is inserted, it is possible to adjust the distance limit in the chart licenses interface in TECDIS (See illustration above).

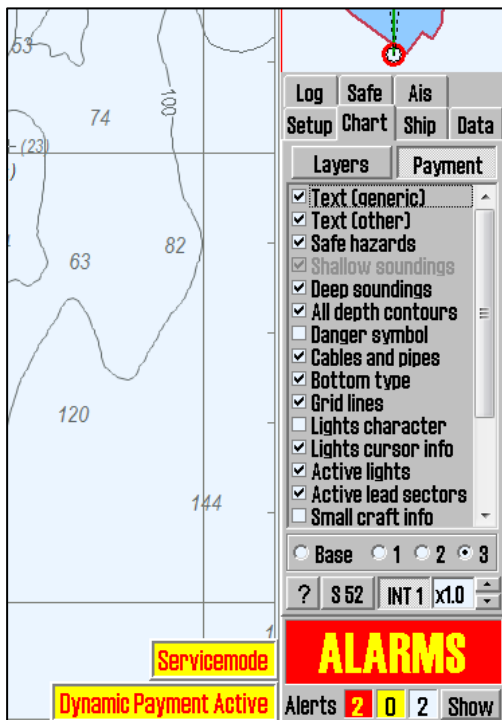
² By default, all ENC charts requested within 5 nautical miles of the vessel are automatically licensed.



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Route Planning using ENC charts

Since only charts within a specified distance are licensed automatically in standard mode, it is possible to plan a potential voyage in advance without incurring additional ENC chart licensing costs. Once it is decided that the voyage will take place, the voyage plan should be checked using ENC charts in order to comply with official requirements for paperless navigation.



The TECDIS Service Key is needed to license charts outside the specified distance limit. When the TECDIS Service Key is inserted, a “Payment” button will be available in the “Chart” folder of the TECDIS menus. Pressing this button activates Payment Mode.

In Payment Mode, all requested ENC charts are licensed, disregarding the distance limit. A clear warning is displayed on screen, indicating that payment mode is active. A route check can now be performed and all dangers / cautions from the ENC charts will be displayed. The route can also be adjusted manually using ENC charts.

Once the voyage plan check is complete, Payment Mode is deactivated either by pressing the “Payment” button again, or by removing the TECDIS Service Key.