

Navmaster ECDIS compliance

In August 2015, the IEC published a new ECDIS test standard IEC 61174 Ed. 4.0 and the IHO published a new Presentation Library Edt 4.0. Navmaster ECDIS version 8.0.0.x is compliant with these latest standards.

New Navmaster ECDIS systems with version 8.0.0.x will be compliant from the beginning. Owners of existing Navmaster ECDIS please contact sales@pcmaritime.com for upgrade options.

The upgrade requirement is enshrined in [MSC.1.Circ.1503 - ECDIS – GUIDANCE FOR GOOD PRACTICE](#) Part B Maintenance of ECDIS Software in item 12 which states:

"ECDIS that is not updated for the latest version of IHO standards may not meet the chart carriage requirements as set out in SOLAS regulation V/19.2.1.4".

And Item 14 which states:

Any ECDIS which is not upgraded to be compatible with the latest version of the IHO ENC Product Specification or the Presentation Library may be unable to correctly display the latest charted features. Additionally, the appropriate alarms and indications may not be activated even though the features have been included in the ENC. Similarly, any ECDIS which is not updated to be fully compliant with the latest version of the IHO Data Protection Standard may fail to decrypt or to properly authenticate some ENCs, leading to failure to load or install. An up-to-date list of all the relevant IHO standards relating to ECDIS equipment can be accessed from the IHO website (www.iho.int).

Operators have until 31 August 2017 to upgrade their ECDIS to comply with these standards and ECDIS carriage requirements.

Navmaster ECDIS Version 8

Latest version 8.0.0.x release date 19/10/2016

Compliant with:

IHO S-57	Edition 3.1.1 (November 2000)	Transfer Standard for Digital Hydrographic Data
IHO S-52	Edition 6.1 (.1) (Oct 2014)	Chart Content and Display Aspects of ECDIS
IHO S-52 PresLib	Edition 4.0.1 (October 2014)	Presentation Library for ECDIS. Annex A to S-52
IHO S-63	Edition 1.2 (January 2015)	Data Protection Scheme
IHO S-64	Edition 3.0.1 (June 2015)	Test Data Sets for ECDIS
IHO S-61	Edition 1.0 (January 1999)	Product specification for Raster

		Navigational Chart (RNC)
IEC 62288	Edition 2.0 (July 2014)	Presentation Standard
IEC 60945 (2002)	Edition 4.0	including corrigendum 1:2008 - General Requirements
IEC 61174	Edition 4.0 (2015)	(ECDIS), including Annex F (Backup arrangements) and Annex H (RCDS mode)
IEC 62388	Edition 2.0 (2013)	Shipborne radar – Performance requirements, methods of testing and required test results
IEC 61162	IEC 61162-1 Edition 4.0 (2010)	
IEC 61162-2 Edition 1.0 (2016)		
IEC 61162-450 (2011)	Maritime navigation and radiocommunication equipment and systems – Digital interfaces	

Navmaster ECDIS Version 7

Latest version 7.1.0.30 release date 19/10/2016

IHO S-57	Edition 3.1 (November 2000)	Transfer Standard for Digital Hydrographic Data
IHO S-52	Edition 6.0 (March 2010)	Chart Content and Display Aspects of ECDIS
IHO S-52 PresLib	Edition 3.4 (January 2008)	Presentation Library for ECDIS. Annex A to S-52
IHO S-63	Edition 1.1 (March 2008)	Data Protection Scheme
IHO S-64	Edition 1.1 (December 2008)	Test Data Sets for ECDIS
IHO S-61	Edition 1.0 (January 1999)	Product specification for Raster Navigational Chart (RNC)
IEC 62288	Edition 1.0 (July 2008)	Presentation Standard
IEC 60945	Edition 4.0	IEC60945:2002/COR1:2008 - General Requirements
IEC 61174	Edition 3.0 (2008)	(ECDIS), including Annex F (Backup arrangements) and Annex H (RCDS mode)
IEC 62388	Edition 2.0 (2013)	Shipborne radar – Performance requirements, methods of testing and required test results
IEC 61162	IEC 61162-1 Edition 4.0 (2010)	
IEC 61162-2 Edition 1.0 (1998)		
IEC 61162-450 (2011)	Maritime navigation and radiocommunication equipment and systems – Digital interfaces	

The IHO ECDIS Data Presentation and Performance Check

In 2012 ECDIS manufacturers were asked to confirm the status of their ECDIS with regard to so-called ECDIS anomalies. In April 2012 we confirmed to the IHO that Navmaster v7.1.0.6 passed all the required checks (earlier versions had only minor deficiencies).

It is not necessary for end users to carry out these checks if they are using Navmaster v7.1.0.6 or later.

Below is an extract from an email dated 14/10/2016 from the chairman of the IHO ENC Working group (Thomas Mellor, Head of OEM Technical Support & Digital Standards, UKHO):

“Over the last 12 months it has come to the attention of the IHO and the ENCWG that PSCO and vetting inspectors are using the IHO ECDIS Data Presentation and Performance Check as a compliance test for ECDIS. ... the IHO ECDIS Data Presentation and Performance Check was not a replacement for type approval, therefore **the IHO have now issued the attached letter which is also published on the IHO website in an attempt to halt this process ...**”

This letter also refers to the new IHO Presentation Library edition 4.0. Operators have until 31st August 2017 to upgrade to this version and conform to MSC circ 1503. The letter refers to a number of new chart symbols but there are many more changes and improvements resulting from other ECDIS specifications.