

Hydrographic Services and Standards Committee

Report of the ENCWG

Presented by Tom Mellor

Chairman of IHO ENC Standards Maintenance
Working Group



International Hydrographic Organization
Organisation Hydrographique Internationale

11th HSSC meeting
6-9 May 2019, Cape Town, South Africa

Activities and Achievements

- Membership

IHO Member States 58

Expert contributors 26

- No ENCWG meeting held in this reporting period
- Meeting planned 10th to 12th June IHO Monaco in conjunction with S-101 meeting



Principal activities for 2019

- S-52 Presentation Library edition 4.0.3 Clarifications
Correct screen shots and poor quality images
- S-64 IHO Test Data Sets for ECDIS edition 3.0.3 Clarifications
Remove M_QUAL from ECDIS Chart 1 ENC's
- S-63 - ENC Readme.TXT
Add template for README information in ENC exchange sets
- S-57 UOC encoding guidance improved to enhance ENC display and assist transition to S-101



Principal activities for 2019

IHO S-57 Appendix B.1, Annex A – Use of the Object Catalogue for ENC

- S-52 Presentation Library 3.4 did not permit the object name of Anchorage Areas to display on the ECDIS screen. The UOC advice was to encode coincident sea areas to display anchorage names.
- There was also no visible display for the S-57 meta object Nautical Publications.
- S-52 Preslib 4.0 corrected these issues and as such Producing Authorities will need to amend their ENC data, it is recommended that this constitutes a Revision to the UOC.



Principal activities 2019

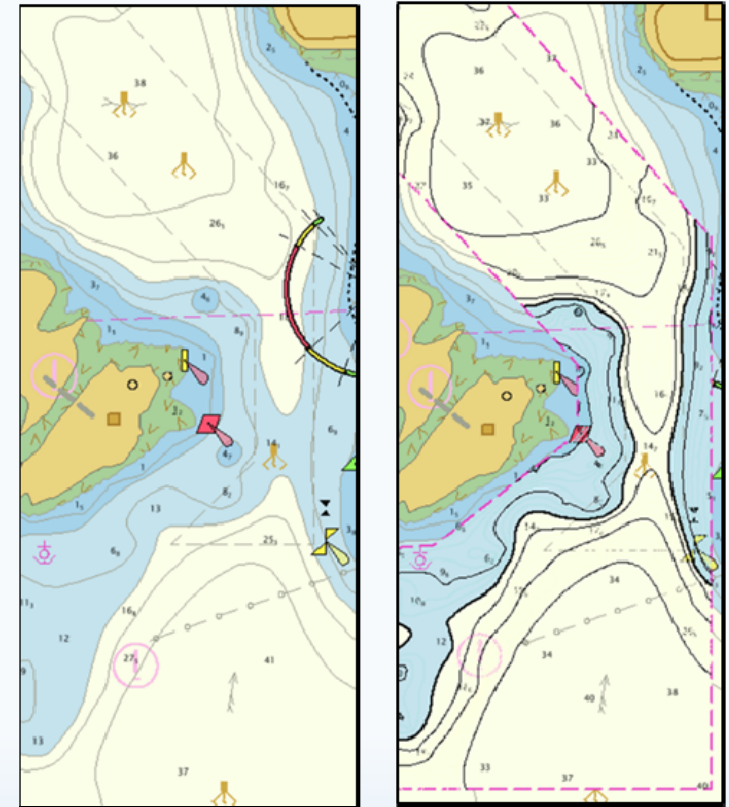
S-58 edition 6.1.0

- S-58 test datasets finalised and placed on Github
- ENCWG will approve datasets and supporting documentation at ENCWG4
- As announced in CL 47/2018 03 October 2018 S-58 edition 6.1.0 will come into force 01 September 2019



Principal activities for 2019

- Production and Maintenance guidance drafted into Annex A of S-65, circulated to HDENC SubWG for comment Feb 2019
- Presented progress and collected feedback from expert group at bathymetry workshop hosted by BSH April 2019



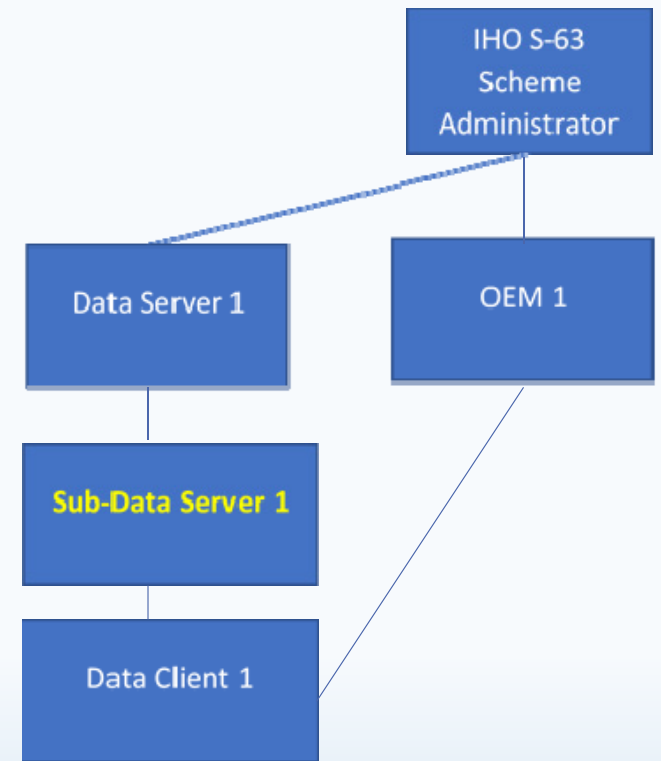
Problems or outstanding issues

Cyber Security New edition of S-63

Issues presented to CIRM ECDIS WG for input

- Proposed new edition of S-63 IHO Data Protection Scheme to address Cyber Security concerns with ENC exchange sets

CATALOG.031	MEDIA.TXT
README.TXT	PERMIT.TXT
PRODUCTS.TXT	SERIAL.TXT
STATUS.TXT	



Problems or outstanding issues

CATZOC U in ENC's

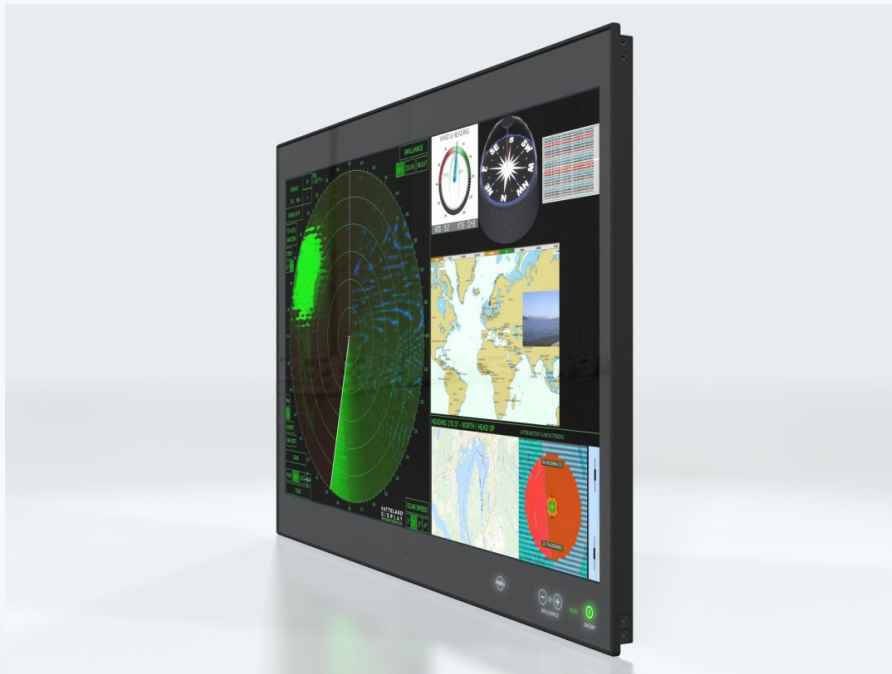
- Circular Letter 50/2017 issued in Aug 2017- Requirement to Provide Meaningful CATZOC Information in ENC's, this called upon HOs to review their current ENC production processes and begin populating CATZOC correctly.
- 38% ENC's commercially available still have CATZOC U encoded
- From these results, we can see that there is still a large amount of work that is still to be done. All HOs are urged to review their current ENC production processes and make changes where necessary to encode meaningful values of CATZOC.



Problems or outstanding issues

Large Format Monitors

Proposed new editions of S-52 and S-64 to support ENC display and testing of Large Format Monitors - Full HD



- S-64 tests are designed for monitors 270mmx270mm
- Proposal to add text and tests which will permit large format monitors Full HD
- Issues discussed with CIRM ECDIS WG April 2019
- CIRM to inform ENCWG of their preferred approach to the issue by ENCWG 4 meeting



Items of Note

Concentrated Inspection Campaign on Safety of Navigation

CIRM to develop Proposal to revise IMO Resolution A.893(21) adopted on 25 November 1999 Guidelines for Voyage Planning



Table 1: Responses to CIC questionnaire

Nr.	CIC on Safety of Navigation, including ECDIS	nr Yes	"/Total Y+N"	nr No	"/Total Y+N"	nr N/A	"/Line total insp"	Nr Blank	"/Line total insp"	"Not detained/consider detained"	
		Measured over only Yes and No answers					Measured over Total of CIC Inspections				
		'YES'(1)		'NO'(1)		N/A(2)		Blank(2)		% 'NO' adjusted Det.(3)	
#	%	#	%	#	%	#	%				
01*	Is ship's navigation equipment in accordance with its applicable safety certificate (SEC, PSSC, CSSC)?	3845	97.9%	84	2.1%	94	2.3%	4	0.1%	100.0%	
02*	Does the ECDIS have the appropriate up-to-date electronic charts for the intended voyage and is there a suitable back-up arrangement?	2382	96.2%	95	3.8%	1549	38.5%	1	0.0%	29.5%	
03	Is there evidence that all watchkeeping officers comply with STCW requirements for ECDIS?	2537	98.4%	42	1.6%	1447	35.9%	1	0.0%		
04*	Can watchkeeping officers demonstrate familiarization with ECDIS?	2415	97.2%	70	2.8%	1537	38.2%	5	0.1%	30.0%	
05*	Can ship's VDR/SVDR record data fully?	3111	97.5%	79	2.5%	828	20.6%	9	0.2%	-20.2%	
06*	Is second and/or third stage remote audible alarm of BNWAS recognized?	3833	98.6%	54	1.4%	127	3.2%	13	0.3%	-33.3%	
07	Is the ship's Automatic Identification System transmitting correct particulars?	3977	99.3%	29	0.7%	15	0.4%	6	0.1%		
08	Does the passage plan cover the whole voyage?	3871	96.3%	147	3.7%	0	0.0%	9	0.2%		
09*	Does all crew know and respect the official working language as established and recorded in the ship's logbook?	3944	98.0%	82	2.0%	0	0.0%	1	0.0%	-4.7%	
10*	Is the crew familiar with the procedure of emergency operation of steering gear?	3994	99.4%	24	0.6%	0	0.0%	9	0.2%	100.0%	
11*	Are the exhibition of navigation/signal lights in accordance with the requirements of COLREG72?	3937	97.9%	86	2.1%	0	0.0%	4	0.1%	-38.6%	
12	Is the ship detained as a result of this CIC?	44	1.1%	3978	98.9%	0	0.0%	5	0.1%		



Items of Note

E-navigation - Guidelines for the standardization of user interface design for navigation equipment (formerly known as S-Mode)

IMO NCSR 6 agreed a draft MSC circular on Guidelines for the standardization of user interface design for navigation equipment. Promoting improved standardization of the user interface and information used by seafarers to monitor, manage and perform navigational tasks, enhancing situation awareness and improving the safety of navigation.

The committee Agreed draft amendments to the Performance standards for the presentation of navigation-related information on shipborne navigational displays (resolution MSC.191(79)), including implementation dates, for radar equipment, electronic chart display and information systems (ECDIS) and integrated navigation systems (INS). The implementation date of the revised standard should be 1 January 2024; and for all other navigational displays on the bridge of a ship 1 July 2025.

Icon (Hot Key)



Items of Note

IEC 61174:2015 Annex S - Route plan exchange format – RTZ

- Implementation issues have identified typographical errors in v1.0 of the schema and wider interpretation issues associated with the RTZ specification.
- CIRM ECDIS WG are working on a draft amendment to address these issues
- Maritime navigation and radiocommunication equipment and systems – Data Interface – Part 1: S-421 Route Plan Based on S-100 CD comments consolidated October 2018.



Action requested of HSSC

- Endorse
 - the continued activity of the ENCWG
 - the publication of clarifications to S-52, S-64 and S-63
 - the proposed revision to the S-57 UOC

