

S-58 Edition 7.0.0



S-58 Edition 7.0.0 Status

- S-58 Edition 7.0.0 was provisionally approved by ENCWG6
 - Subsequently a error was identified with the wording of checks 555a & 555b



Changes to checks 555a & 555b

555a	<p>If the order of the data in a base or update file is not correct, except for when:</p> <ol style="list-style-type: none"> 1. Isolated nodes (SG2D) are listed before isolated nodes (SG3D) OR 2. Connected nodes are listed before isolated nodes (SG3D) OR 3. Connected nodes are listed before isolated nodes (SG2D) OR 4. Geo Meta features are listed before MetaGeo features. 	Incorrect data order.	Amend data order.	6.1.1	C
555b	<p>If the order of the data in a base or update file is such that:</p> <ol style="list-style-type: none"> 1. Isolated nodes (SG2D) are listed before isolated nodes (SG3D) OR 2. Connected nodes are listed before isolated nodes (SG3D) OR 3. Connected nodes are listed before isolated nodes (SG2D) OR 4. GeoMeta features are listed before MetaGeo features. 	Incorrect data order.	Amend data order.	6.1.1	E



Additional changes proposed

Paper ENCWG4-05.9

- Reported that, whilst there was not a specified limit to the length of records within S-57, ENCs containing very large records failed to load on some ECDIS systems.
- Proposed a new check to detect records that exceeded 99999 bytes in length.



Additional changes proposed

The following alternatives have been proposed :-

- A single generic check

xxx	For each record check the DDR record length is not exceeded.	This record has more than the permitted number of references.	Reduce the number of references either through splitting the object or optimising the geometry.	Part 3 (2.7)	C
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Or



Additional changes proposed

The following alternatives have been proposed :-

- 3 more specific checks:-

xxxx	For SG3D that contains > 8250 3D coordinates	Sounding bundle contains more than 8250 individual depths	Split sounding bundle	Part 3 (2.7)	E
xxxx	For SG2D that contains > 12375 2D coordinates	Edge contains more than 12375 coordinates	Split or optimise geometry	Part 3 (2.7)	E
xxxx	For FSPT that references > 12375 VRID records	FSPT record contains references to more than 12375 spatial records	Optimise geometry, merging referenced edges where possible	Part 3 (2.7)	E



Additional changes proposed

Paper ENCWG_VTC1-5A

- Proposal additional clarification of check 77

77	For each DEPCNT feature object which CROSSES another DEPCNT feature object. <i>Instances where the point of intersection is an intermediate vertex or node, and where one DEPCNT does not cross to the other side of the other DEPCNT, are excluded.</i>	DEPCNT objects cross.	Amend DEPCNT objects so they do not cross.	Logical consistency	C
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ENCWG Action

Action Required of ENCWG

- Discuss and approve the proposed changes.
- Endorse the submission of S-58 Edition 7.0.0 to HSSC
- Acknowledge IC-ENC for their assistance in updating the S-58 Test data sets.

