

Paper for Consideration by ENCWG

S-58 proposed changes

Submitted by:	PRIMAR
Executive Summary:	Proposed changes to existing S-58 checks
Related Documents:	S-58 6.1.0 S-57 Appendix B.1 Annex A UOC Edition 4.1.0 S-57 Appendix B.1 - ENC Product Specification
Related Projects:	

Introduction / Background

PRIMAR proposes changes to existing S-58 checks. During the last year it has come to our attention that the checks 551a, 1512a and 1772b may need adjustments.

Analysis

551a

551a	If text attribute values use (C0) characters (C0 as defined in S-57 Part 3, Annex B).	C0 characters used in text attribute values.	Correct text attribute values.	3.5.5 and Part 3 Annex B	E
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S-57 Appendix B.1 Annex A UOC Edition 4.1.0, chapter 2.3, 3rd section 2nd sentence states:
"Formatting characters (C0 as defined in S-57 Part 3, Annex B) are prohibited".

S-57 Appendix B.1 - ENC Product Specification, chapter 3.5.5, 3rd sentence states:
"Format effecting (C0) characters as defined in S-57 Part 3, Annex B are prohibited".

As stated in above mentioned instances of S-57 it is prohibited to use C0 characters as defined in S-57 Part 3, Annex B. Due to the use of the word "prohibited", which is perceived as a strong statement against doing something, we propose to change the classification from Error to Critical.

1512a

1512a	For each SOUNDG feature object which CROSSES OR TOUCHES a M_SDAT meta object	SOUNDG object intersects boundary of a M_SDAT object.	Split SOUNDG object at boundary of M_SDAT object.	2.1.3	E
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The spatial operator CROSSES only apply Line/Line and Line/Area relationships (ref S-58 6.1.0, chapter 2.4 Geometric Operator Definitions). A SOUNDG feature is neither a Line nor an Area. We propose to amend the check description accordingly to:

"For each SOUNDG feature object which ~~CROSSES OR TOUCHES~~ a M_SDAT meta object".

1772b

1772b	For each UWTRC feature object where VALSOU is notNull AND EXPSOU is Equal to 1 (within the range of depth of the surrounding depth area) OR not Present AND VALSOU is Less than or equal to DRVAL1 OR Greater than DRVAL2 of the DRGARE feature object it is COVERED_BY AND DRVAL2 is notNull AND Not equal to DRVAL1.	VALSOU for UWTRC object with EXPSOU = 1 (within the range of depth of the surrounding depth area) or not present is outside the depth range of the underlying DRGARE object.	Populate appropriate value of EXPSOU for DRGARE object.	6.1.2	E
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The check solution column erroneously mentions DRGARE instead of UWTRC. We propose amend the check solution to:

"Populate appropriate value of EXPSOU for ~~DRGARE~~ UWTRC object".

Conclusions

Changes to the checks 551a, 1512a and 1772b are proposed.

Action Required of ENCWG

The ENCWG is invited to:

Note this paper and discuss if the proposals are acceptable.