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Review of S-101 Feature Catalogue against S-101 Data Classification and Encoding Guide

References:

A. DQWG Terms of Reference (dated May 2019)
B. DQWG Reference Documents – Data Validation ISO Principles (dated February 2020)
C. IHO Standard and Publications – S-101 ENC Product Specification (Edition 1.0.0)
D. IHO S-101 Feature Catalogue (Edition 1.0.0 – dated April 2019)
E. IHO S-101 Annex A Data Classification and Encoding Guide (Edition 1.0.0 – dated December 2018)

Dear DQWG Member,

1. This DQWG Letter provides information required to work by correspondence on the primary objective of the DQWG, assigned by the HSSC, being to ensure that the data quality aspects are addressed in an appropriate and harmonized way for all S-100 based product specifications (ref. A).

2. The DQWG should periodically review S-100 based product specifications to ensure the data quality aspects have been taken into consideration and provide input papers for WGs and PTs consideration if deemed necessary (ref A).

3. The principles of Data Validation have been presented at the 15th meeting of the DQWG (February 2020) and are now available as reference for the review process (ref B: www.iho.int -> HSSC -> DQWG -> Reference Documents).

4. The S-101 ENC product specification is designed to allow content, content definition (Feature Catalogues) and presentation (Portrayal Catalogues) to be updateable without breaking system implementations. Based on the IHO Universal Hydrographic Data Model S-100, S-101 includes all the necessary components for both Hydrographic Offices to produce Electronic Navigational Charts (ENCs); and marine navigation systems (principally Electronic Chart Display and Information Systems (ECDIS)) to be able to ingest and properly display them. This Product Specification is designed to be flexible with the introduction of machine readable Feature and Portrayal Catalogues that will allow for managed change; and will enable the introduction of new navigationally significant features and their portrayal using a "just in time" methodology (ref C – Introduction).

5. The feature catalogue of S-101 is available on www.iho.int -> Standards and Specifications, and is provided in xml format. As this user format is not very user friendly to read, its content has been copied into a Word document. It serves as a reference document for the review process undertaken by the DQWG, please find attached: S-101AppC_EN_FeatureCatalogue_Ed.1.0.0_ByDQWG.docx (dated September 2020).

6. To ensure consistency within S-101, the Feature Catalogue has been cross-checked with the content of the S-101 Annex A Data Classification Encoding Guide (ref E).

7. This review has been done by the DQWG Chair and its results are provided in the attached Comment Form. Input by DQWG Chair is labelled DQ. Any input provided by the NLHO will have NL as Contributing Organization.

8. It is recognized that the review has been done on documents with a release date of December 2018 and April 2019. It is possible that the current content of the S-100 Geospatial Information Registry could already have addresses some of the inconsistencies identified during this review process. The IHO Secretariat is invited to provide their observations on each comment submitted.

9. DQWG Members are invited to provide additional comments and a proposed change by. If a reference is made to an already existing comment, please quote the reference. (e.g. DQ.07). Please provide index numbers when adding comments (e.g. SE.01, SE.02 etc.). Please be specific to which document the comment refers (FC = Feature Catalogue, DCEG = Data Classification Encoding Guide).

10. Please send your feedback to the DQWG Chair (r.broekman.01@mindef.nl) no later than **06 November 2020**.

11. If a new update (Edition 1.0.1) or new Edition (1.1.0) will become available, the review process will be repeated to ensure that all inconsistencies will be identified before Edition 2.0.0. The reference document will be updated accordingly. It will also be used to cross-check other Feature Catalogues (S-102, S-104, S-111, S-122, S-123, S-129) to ensure that any inconsistencies are identified and reported (ref A).

Yours sincerely

Rogier Broekman
Chair IHO Data Quality Working Group

Attachments
   A. Letter 01/2020 Comment form
   B. S-101AppC_EN_FeatureCatalogue_Ed.1.0.0_ByDQWG

Distribution:
DQWG Members (including S-101PT Chair/Vice Chair)
Chair of S-100WG, NIPWG and TWCWG (informative)