

ENCWG – S-57 to S-101 CONVERSION SUB-GROUP

VTC MEETING 2, 3 DECEMBER 2020 – 1700 - 1845 CET

Attendees

- Jonathan Pritchard (IIC Technologies – Sub-Group co-leader)
- Christian Mouden (France - Sub-Group co-leader)
- Jeff Wootton (IHO)
- Julie Larrivée (Canada)
- Morgane Gaumet (France)
- Erwann Herpe (France)
- Elizabeth Hahessy (Denmark)
- Richard Fowle (Denmark)
- Andrew Richardson (UKHO)
- Megan Bartlett (NOAA)
- Mikus Ranka (Norway)
- Svein Skjaeveland (Primar)
- Thomas Richardson (ic-enc)
- Susan Marks (ic-enc)
- Inga Fjellanger (Navico)
- Tom De Puyt (Esri)
- Abinashi Dhungel (Esri)
- Hugh Astle (Teledyne)
- Friedhelm Moggert-Kaegeler (SevenCs)

Agenda

- **Base document for the work of the Sub-Group**

It has been agreed that to use the “S-57 Removed_Remodelled Items” spreadsheet elaborated par Jeff Wootton as a source for the output documentation. Jeff will keep the original version of this spreadsheet up-to-date and will notify the Sub-Group as changes are made. It’s a “modelling spreadsheet”. Part of our work is producing the “conversion” implementation of the contents as a variant version of the spreadsheet and adding additional content.

- **Output document**

1. As the conversion is based on S-57, agreement was reached to produce a formal document based on the structure of the S-57 UOC. The "Master" version of the document to be held/maintained by the IHO Secretariat (Jeff).
2. It was suggested that the document could be an annex B to appendix B1 of S-57. After post meeting discussions it could rather be part of S-65 or a new S-75? As this needs HSSC approval, this will be discussed at next ENCWG meeting.

- **Work organization**

1. The re-modelling spreadsheet will be good as a source to gather the information and group it by feature/attribute class. Our input to it can be subsequently incorporated in a document as a more formal output of the group.
2. The topic of “reverse” conversion was also raised with the group. In many ways the process of converting from S-101 to S-57 (necessary for Dual-Fuel production) is more straightforward and should be within the scope of the group’s activities, even if it is not a primary focus. So this aspect will not be integrated in the first version of the document. The focus of the group is the migration of producer ENC data from S-57 “capable” to S-101 “capable”. It may well be the case that S-101 → S-57 conversion could provide a solution for some producers on an on-going basis to support co-production during the transition period.
3. Work division is (initially at least):
 - a. S-57 tab (dropped from S-101) - initial subject of tests to assess producer data. There are other tests too, as will be identified by the rest of the work;
 - b. S-57 tab, remodelled. These will be initially treated by adding a number of columns to the sheet and processing them a line at a time. Initial columns (e.g. identifying the converters) to be added are (post-meeting):
 - i. Does data need “preparation” before conversion, i.e does it need to be assessed, edited, checked prior to conversion?
 - ii. Is cartographic (i.e. manual) input required as an integral part of the conversion process (before or after conversion)?
 - iii. Does the dataset need “configuration” to allow it to be converted, i.e. a one-time configuration to enable correct conversion?
 - iv. Procedural details of conversion.
 - v. Any notes relating to S-101 → S-57 conversion which may be useful for managing ongoing production.
 - vi. Description of tests which could be applied to datasets to enable assessment of data for its conversion by producers [IC-ENC have supplied a initial of worded tests in this respect].
 - vii. Identify the UOC section the feature relates to (may also track via entry in corresponding feature catalogue too).
 - viii. Existing S-58 tests which may be applicable to source feature. Before testing conversion, we must ensure that S-57 data is consistent and passes the S-58 Critical checks. Denmark and ic-enc happy to collaborate on the elaboration of S-58 checks.
 - ix. Grouping - some elements may have common strategies and this could reduce work by not repeating the same processes, e.g. Group 1 changes, simple attribute transformations, Lights etc.. An initial list was presented of these groups; the spreadsheet will have dropdowns to include and an initial pass done on them. These groups could be given to participants to focus efforts.
 - x. Test data will have to be collected. France will prepare a complex cell to test Group1. NOAA (Megan) is happy to collaborate on Group 1 and metadata. UKHO (Andrew) also happy to help where need.

- c. S-101 tab. Which elements of the S-101 features contained in the S-101 tab can be fully (or partially) populated as part of a conversion process by a suitably configured converter. Which elements are not possible. Format of sheet to be decided.
- d. Jonathan to prepare initial version of sheet and share via google docs to allow for review and subsequent cooperative editing. Offers of assistance explicitly from DK, US, UK, IC-ENC/Primar, SevenCs. Others to follow.
- e. Groupings initially:
 - a. Group 1 features
 - b. Attribute redefinition
 - c. Lights
 - d. Meta Features
 - e. Quality/CATZOC (mindful of upcoming papers on reinstating CATZOC, this might want to wait)
 - f. INFORM structures
 - g. INFORM content
- 4. GitHub issues is a good place to describe things which need input from many others. We can populate some of those now and ask for input (also note in spreadsheet issue number for discussion).
- 5. Tools and technology, vendors and production systems also needs to be a focus of the group and could be the subject of future presentations to the group. Industry representatives continue to attend and have increased in number which is really positive.

- **Next meeting**

Next meeting planned on 8th January.