

Paper for Consideration by TSMAD27

[S-102 Specification Update]

Submitted by:	US – US Naval Oceanographic Office
Executive Summary:	S-102 Update and Sub-Working Group.
Related Documents:	S-102 Product Specification; IHO CL 10/2012
Related Projects:	N/A

Introduction / Background

In 2012 the IHO member states approved S-102 as the first S-100 based product specification. This specification is based on the Open Navigation Standards Working Group (ONSWG) work on the Bathymetric Attributed Grid (BAG). The version of S-102 that is approved was based on BAG 1.4. The ONSWG has since enhanced the BAG version to include Vertical Datum Separation layers among other capabilities.

Additionally, OEMs are requesting test data sets and beginning to work with S-102 samples. In doing so deficiencies or beneficial enhancements have been identified that need to be incorporated into the product specification.

Analysis/Discussion

The US would like to work with the OEMs and other hydrographic Offices to upgrade the product specification to incorporate those recommendations. They include but are not limited to:

- File naming conventions.
- Exchange sets where it should be possible to have one directory with S-101 and S-102 files and a common index file like S-57 CATALOG.031. This would make it easier to set up combined online services and/or distribute on physical media.
- Performance specifications.
- The option to use Data protection like S-63.

Simultaneously, the US would take the opportunity to synchronize S-102 with the current version of BAG.

The proposal is to develop an informal working group that would communicate electronically through e-mail and teleconferencing when necessary. This would minimize coast to developers, OEMs and hydrographic offices. Recommendations / Enhancements would be proposed to TSMAD for approval and acceptance.

Conclusions

This proposal will help ensure successful implementation within the next generation of ECDIS.

Recommendations

US recommend that TSMAD endorse this proposal.

Justification and Impacts

As stated, this proposal will help ensure successful implementation of S-102 within the next generation of ECDIS. This would include performance with S-100 and other overlays. This action should be considered high priority. It should be completed and proposed for TSMAD 29.

Action Required of TSMAD

The TSMAD is invited to:

- a. endorse an S-102 subworking group to update S-102