

Paper for Consideration by the Transfer Standard Maintenance and Applications Development Working Group (TSMAD)

TSMAD Work Item A9 "S10X Product Specification" Closure Report.

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Executive Summary:	Report on the outcome of TSMAD Work Item A9 "Develop an S-10X product specification for Auxiliary Informational Layer Integration.",
Related Documents:	Standards S-100, S-101, S-102
Related Projects:	Development of S-101

Introduction / Background

At TSMAD 18 in May of 2009, a discussion took place concerning a proposal that would allow for various product specifications to be interoperable with S-101 datasets. Ice overlays, currents and high definition bathymetry were the initially identified high priority information layers which would enhance mariners safety of navigation. During that meeting Canada volunteered to write a recommendation to HSSC1 for the addition of a new work item to the TSMAD group for the development of a product specification to facilitate this proposal. HSSC approved and assigned TSMAD work item (A9) during their meeting in October of 2009. (http://www.iho.int/mtg_docs/com_wg/HSSC/HSSC1/HSSC1-06.1F_Multiple_Layers_of_S-100_compliant_ANI.pdf)

At TSMAD 19, Canada accepted the lead role in developing a draft product specification to be presented at the following meeting, TSMAD 20, in Rostock, Germany.

To achieve this timeline, CHS convened several teleconference calls as well as a joint meeting held in Miami, Florida where CHS, Canadian Ice Services, CARIS, UKHO and Jeppesen worked on the development of a paper to outline how multiple layers of S-100 compliant information could be integrated with S-101 datasets. The participants identified the metadata requirements that would facilitate the integration, and identified a list of considerations that would need to be taken into consideration when developing S-100 based product specifications that needed to be interoperable with S-101 datasets. The compiled information was submitted at TSMAD20 for review. (http://www.iho.int/mtg_docs/com_wg/TSMAD/TSMAD20/TSMAD20_DIPWG2-18A_S-10X_Requirements_CHS.pdf)

Also submitted as an information paper was a proposed S-10X draft specification developed in conjunction with the S-102 work as coordinated by Wade Ladner. (http://www.iho.int/mtg_docs/com_wg/TSMAD/TSMAD20/TSMAD20_DIPWG2-18B_Proposed_Specification_for_S-10x.pdf). This document was not pursued further.

Although initially conceived that S-10x would be a separate product specification, the resulting report was more a guidance document to ensure developers of new product specifications were aware of considerations that would need to be addressed to integrate with S-101 datasets.

TSMAD supported the proposed S-10x and cited within the TSMAD 20 minutes that this S-10x document should be part of the S-100 standard, product specification template section.

In addition, at TSMAD25 an S-10n template was proposed to aid users in the development of new S100 based product specifications.

Analysis/Discussion/Conclusions

Work Item A9 was to facilitate the addition of auxiliary navigational information to further safeguard mariners, by providing a mechanism to incorporate auxiliary navigational layers such as ice, high density bathymetry and currents with our existing S-101 datasets.

The initial work item states "Develop an S-10X product specification for Auxiliary Informational Layer Integration". However, after much analysis it was deemed that the initially conceived S-10X product

specification was not so much a product specification but instead a set of guidelines that must be considered when developing S-100 based product specifications that have to integrate with S-101 datasets.

The guideline document that was developed was recommended by TSMAD20 for inclusion within the documentation for S-100 product specifications and as such is available to developers of S-100 base product specifications.

With the addition of the S-10n template, as proposed at TSMAD25, users now have available to them, the tools required to build product specifications that are designed to work with S-101 datasets.

Recommendations

Based upon the findings in this report it is recommended that TSMAD mark Work Item A9 as closed and forward that information on to HSSC during the provision of the annual TSMAD report at HSSC5.

Justification and Impacts

The intent with Work Item A9 was to facilitate the addition of auxiliary navigational information to further safeguard mariners, by providing a mechanism to incorporate auxiliary navigational layers such as ice, high density bathymetry and currents with our existing S-101 datasets. The provision of the guidance information within the S-100 documentation on Product Specifications and the S-10n template fulfils that intent.

Action Required of TSMAD

TSMAD is invited to endorse this proposal and inform HSSC as to the completion of work item A9.