Input paper: [[1]](#footnote-1) VTS56-9.3.1

Input paper for the following Committee(s): Purpose of paper:

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□DTEC X VTS □ Information

Agenda item[[2]](#footnote-2) 9.3

Technical Domain / Task Number2 2.8.1

Author(s) / Submitter(s) China Maritime Safety Administration

Proposal on Working Paper of VTS Digital Information Product Specification Edition 0.7.2

# Summary

IHO released S-100 5.2.0 in June 2024, this proposal combs the relevant content of S-212 in combination with S-100 5.2.0, so as to make a docking and lay a solid foundation for the further development of S-212.

## 1.1 Purpose of the document

The purpose of this proposal is to provide suggestions for the improvement of the *VTS Digital Information Product Specification V0.7.2 Working Document* in conjunction with S-100 5.2.0.

## Related documents

**IALA VTS55-12.5.2.1** *VTS Digital Information Product SpecificationV0.7.2(WP)*

**IALA VTS54-6.1.1***VTS Task Plan 2023-2027*

# background

**2.1** The *VTS Task Plan 2018-2023* raised the task “*Develop a Product Specification under the S-100 framework for VTS*”, and stated that the expected outcome of this task is *developing the VTS Digital Information Service Product Specification*. The *IALA VTS Task Plan 2023-2027* continued the task and established the Task Group 2.8.1. After several rounds of discussion and modification, the working group has formed the current S-212 working paper.

**2.2**  IHO release S-101 1.2.0 in March 2024， S-100 5.2.0 in June 2024, which is of great significance for the S-212 to better conform to the S-100 data model.

# PROPOSAL

## Proposals on updating "geometric configuration"

The current geometric configuration of S-212 is inconsistent with the latest S-100 5.2 in terms of chapter catalogue references to S-100, level set, and so on. It is recommended to be revised in parallel.

## 3.2 Proposals on updating "temporal reference system"

ISO 19108 5.4.4 only includes three types: calendar date, clock time, calendar date with clock time, and cannot effectively support some simple time attributes such as S100\_TruncatedDate, S100\_IndeterminateDate, and time-sensitive features such as meteorological information.

S-100 5.2.0 had updated metadata temporal attributes to better support representation of time-sensitive features and attributes under the ISO 19108 framework, such as period, temporal coordinate system, temporal feature association, etc.

The product specifications such as S-104/111/129/411/412/413/414 related to S-212 include time-sensitive features and attributes, so it is recommended to update temporal reference system, fully citing ISO 19108. In the future, it is necessary to update GFM. In addition, the latest version of ISO 19108 is ISO 19108:2002/Cor 1:2006.

## 3.3 Proposals on updating S-100 related contents

IHO has recently released several new versions of the S-10X product specification, and is proposing to change the S-100 edition to 5.2.0 for June 2024 and the S-101 edition to 1.2.0 for March 2024 in the 1.3.2 Informative references.

In support of S-10X applications and the implementation of digital maritime services (MS), in December 2022, MSC106 approved the *Revised Electronic Chart Display and Information System (ECDIS) Performance Standard (MSC.530(106))*, which introduced the concept of electronic Navigation Data Services (ENDS) and online transmission updates for the first time. In May 2023, IMO NCSR10 had adopted the new revision of ECDIS performance standard, and approved by IMO MSC108 in June 2024. The revision had supported planned route exchange and secure online data exchange in compliance with S-421/IEC 63173-1 and /IEC 63173-2 SECOM.

Considering the S-100 ECDIS will serve as an important carrier for the landing of MS1: VTS and S-10X at the end users of the ship, it is recommended that firstly, the wording related to the “11. data products delivery” should be optimized and adjusted, and secondly, the relevant standards such as MSC.530(108) and IEC 63173-2 SECOM/ should be added in the 1.3.2 Informative references.

# References

1. IHO S-100 *Universal Hydrographic Data Model Edition 5.2.0* (June 2024)；
2. IHO S-101 *Electronic Navigational Chart Product Specification Edition 1.2.0*（March 2024）；
3. IMO Resolution MSC.530(106) Rev.1 *ECDIS Performance Standard* (May 2024).

# Action requested of the Committee

The Committee is requested to consider the proposals in this document and take actions as appropriate.

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-1)
2. Leave open if uncertain [↑](#footnote-ref-2)