

IALA COUNCIL
79th session



11-14 December 2023
IALA Headquarters

10 – TECHNICAL ACTIVITIES

10.9 – Product specifications and technical services

10.9.1 – Committee work on S-200 PS

Note by the Secretariat

1. INTRODUCTION

Throughout the first half of 2023, the committees have been progressing in the development of the S-200 Product Specifications (PS) within their relevant areas. This document aims to provide the Council with a comprehensive update on the S-200 PS series, reflecting the accomplishments and efforts of the committees.

2. UPDATE ON S-200 PS DEVELOPMENT

As the domain control body of the S-200 series, IALA develops its own PS related to Marine Aids to Navigation.

The following table summarizes the work of the committees as of now:

Domain	PS	Title	Developing Committee	Version
AtoN	S-201	AtoN information	ARM	1.1.0
	S-125	Marine Aids to Navigation	IHO NIPWG (ARM)	0.0.3
Positioning	S-240	DGNSS almanac	ENG	1.0.0
	S-245	eLoran ASF	ENG	1.0.0
	S-246	eLoran almanac	ENG	1.0.0
	S-247	eLoran reference stations	ENG	1.0.0
Comms.	S-230	Application Specific Message (ASM)	DTEC	On hold
VTS	S-210	Inter VTS exchange	VTS	Started
	S-211	Port Call Message	IPCDMC	1.0.0
	S-212	VTS digital information service	VTS	0.7.0

S-201 and S-125

The ARM working group undertook an assessment of the S-201 PS. One of the conclusion was the potential separation of the S-201 Implementation Guidelines which is an annex of the PS, transforming it into a standalone Guideline.

The group is working on refining the data model of S-125. This involves not only updating the model itself but also integrating these modifications into the S-201 framework, ensuring coherence and

compatibility between the two specifications. Additionally, the working group is actively engaged in rectifying identified errors within the S-125 GML Schema.

S-230

The Japan Coast Guard has submitted a proposal (DTEC1-5.1.3.9) to the DTEC Committee, advocating for the further implementation of the Application Specific Message (ASM) Product Specification. This proposal was discussed and reviewed by the working group. To deepen the understanding and facilitate a thorough evaluation, the group concluded that additional information was needed.

Consequently, the author has responded positively to this request and has committed to preparing an expanded document for presentation at the upcoming DTEC 2 meeting.

S-210 and S-212

The VTS Committee has been progressing in the development of the S-212. In line with these work, an intersessional meetings focusing on both S-210 and S-212 have been scheduled for January 2024, to take place in Canada.

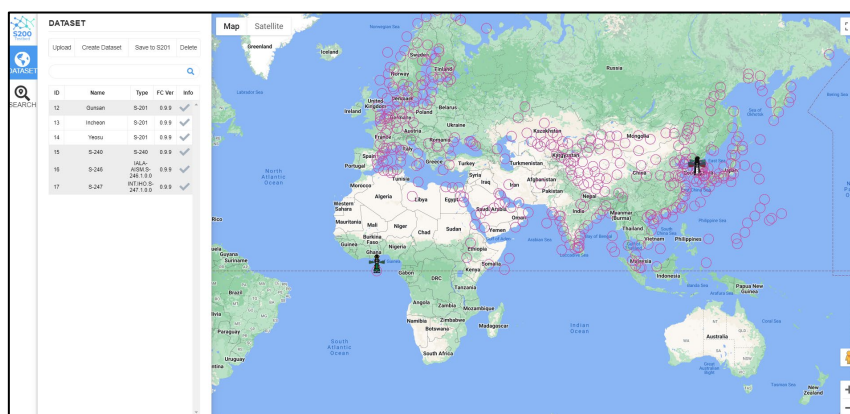
Further details regarding the agendas, specific objectives, and expected outcomes of these meetings will be communicated to all relevant stakeholders.

3. S-200 TESTBED

The S-200 series product specifications testbed, accessible at www.s200testbed.iaia-aism.org, serves an important role in the harmonization of member datasets with the S-201 standard dataset. This platform enables members to upload their national datasets and systematically identify any discrepancies or compatibility issues with the S-201 standard. The primary objective is to identify areas for improvement and develop strategies for aligning national datasets with S-200.

The testbed is equipped to perform a diverse range of functions, including the import and export of national datasets, accurate portrayal of the S-200 dataset, comprehensive quality validation, and testing of Marine Resource Names (MRN).

Following the initial phase of testing, feedback was received from members, highlighting the need for additional features such as a detailed README file to guide users, a dedicated AtoN data converter, and an S-101 AtoN data extractor.



ARM is actively engaged in the further development of the S-200 Testbed (Task number ARM-7.1.10), with the support of the Korea Ministry of Oceans and Fisheries and KRISO. This effort has seen various members contributing their national Aids to Navigation datasets for comprehensive testing on the testbed. The insights gained from these tests are being shared with all members, fostering a

collaborative approach to problem-solving. This project remains a work in progress, with a focus on continuous improvement and adaptation to emerging needs.

4. 2ND JOINT IHO IALA WORKSHOP

The first joint workshop hosted by IALA and IHO, focusing on the development and portrayal of the S-100/200 series, was conducted with success in September 2022 in Alesund, Norway. This event marked a significant milestone in fostering cooperation and alignment between the two organizations.

With the positive outcomes and constructive engagements of this workshop, the ARM committee has prepared a proposal for the second workshop, and it was approved by the Council. This forthcoming event is scheduled for 9-13 September 2024 in Annapolis, USA.

The objectives for this workshop have been thoughtfully curated to mirror the successful formula of its predecessor, with an emphasis on:

- Harmonization and facilitation of open communication channels between IHO and IALA, particularly concerning the requirements and developmental processes of Product Specifications.
- Sharing and exploring diverse visions of the S-100 series utilization among a broad spectrum of stakeholders.
- Identifying potential updates and proposing amendments to existing documentation, ensuring they remain relevant and effective.
- Providing a clear and comprehensive understanding of the development processes for S-100 based Product Specifications.

5. STRATEGY ON S-200

IALA will continue to develop and coordinate the PS and data exchange formats that will underpin e-navigation services in the future. The committees will focus on the technical service and the streaming of the data. As some of the S-200 PS reach maturity, all of the members are invited to try out the testbed.

IALA will continue in close cooperation with IHO through regular joint workshops and technical cooperation meetings, to ensure the two organizations are harmonized with regard to development, including the related terms and definitions of AtoN.

6. THE COUNCIL IS REQUESTED TO

NOTE the information provided in this document.