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Technical Domain / Task Number 2 Working Group 2 / Task 5.1.5

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Discussion of S-125 Product Specification development

# Summary

## Purpose of the document

IHO started to develop S-125 Product Specification in NIPWG, but drafting of the S-125 Product Specification has been put on hold considering the priority among the nautical publication products. IHO NIPWG has accepted the ARM offer of drafting S-125 Product Specification.

This document was written to stimulate the discussion of S-125 Product Specification development plan.

## Related documents

* IALA ARM9 Proposal for the development of S-125 PS
* NIPWG6-35.1 S-125 Navigational Services status update

# Background

ARM8 in October 2018 discussed the possibility of taking an active role in drafting S-125 Product Specification and the action item was approved. ARM sent a liaison note to NIPWG early January 2019 to formalise the offer. The paper included the following propositions to IHO NIPWG;

* IALA ARM Committee draft the S-125 PS and submit to NIPWG for its consideration/ comment.
* The development of S-125 would occur with frequent liaison notes back and forth between the two bodies (especially in the requirements identification phase).
* The final product would be adopted and maintained by NIPWG with routine consultation between IHO and IALA.

While S-201 is a standard for exchanging all information related to any AtoN including metadata like maintenance schedules, equipment types, like battery and bulb types, S-125 would be a derivative of S-201 as the public facing information. In other words, S-125 would be the digital equivalent of the extended list of lights. There is also a discussion of expanding this vision of S-125 to include the attributes necessary to digitally populate the portions of the Notice to Mariners which relate to AtoN (e.g. Discrepancies, proposed changes, Advance Notice of Change and Temporary changes).

Since S-125 would be the subset of S-201 and the S-201 is nearing a completion level in the release of version 1.0.0, S-201 TG is required to consider the S-125 development and start to discuss the plans with IHO NIPWG.

The S-125 development was included in 2018~2022 Work program of IALA ARM. The discussion on the scope, direction and development plan of S-125 Product Specification is therefore necessary.

# Discussion

## Scope of S-125

The S-201 AtoN Product Specification covers the exchange of information for managing AtoNs by AtoN authority as well as exchanging AtoN information to hydrography offices and other relevant stakeholders. S-125 Product Specification is for exchanging AtoN information to end users engaged in navigation.

From this purpose it is envisioned that the source of S-125 datasets will be a S-201 compatible AtoN database. The application schema of S-125 can be drafted as sub set of S-201 application schema. This subset would then be extended to include the model elements to facilitate the enhancements needed to support the vision of S-125 that include AtoN information like discrepancies, proposed changes, advance notice of changes and temporary changes, and to facilitate the option of using S-125 datasets as extended List of Lights.

## Plan of S-125 development

S-201 TG propose that it report the scope and plan of S-125 development considering major components, discussion results and progress to IHO NIPWG.

## Cooperation between IALA ARM and IHO NIPWG

Since IHO has considered developing S-125 Product Specification for a long time, they have many requirements for the PS. The S-201 TG will cooperate closely with IHO NIPWG. The development will include frequent liaison notes back and forth between the two bodies.

# Action requested of the Committee

The Committee is requested to:

1. Note this paper.
2. Discuss the scope and plan of S-125 development.

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