

Input paper for the following Committee(s): check as appropriate

☒ ARM ☐ ENG ☐ PAP
☐ ENAV ☐ VTS

Purpose of paper:

☒ Input
☐ Information

Agenda item ² 6.2Technical Domain / Task Number ²

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NIPWG10 outcomes relevant to IALA

1 SUMMARY

This paper outlines the outcomes relevant to the AtoN Requirements and Maintenance Committee from the 10th meeting of International Hydrographic Organization Nautical Information Provision Working Group.

2 BACKGROUND

NIPWG had its 10th meeting between 12th and 15th of September, at the IHO in Monaco. The ongoing cooperation between NIPWG and ARM was noted and several agenda items and outcomes are relevant to ARM.

3 DISCUSSION

IHO MRN guidelines [1] are being drafted by NIPWG. The IALA guidance in G1143 is being used for inspiration in the ongoing work within IHO.

Efforts to clarify the use of MRN in S-100 for the purpose of enabling interoperability between layers (products and product specifications), by having an Interoperability identifier submitted to the GI Registry. The intent is for this to be the globally applied identifier attribute for all features and information classes where there is value in preserving persistent identifiers. This will then allow user systems to identify instance of the same thing across products and layers. How this functions will be described in Annex C of S-98 (ECDIS Interoperability Catalogue) for ECDIS equipment. Other systems needing similar functionality should consider a similar approach.

NIPWG has an action to draft an S-100 world architecture for HSSC. It was noted that the description of the AtoN task, see figure 1, generated during the IHO/IALA S-100/S-200 Workshop in 2022 was a good start for such an architecture. In the discussion the ARM Chair noted that IALA could help with completing the architecture diagram of the S-100 world. This offer was noted down as NIPWG10, Action Item 19, with a deliverable of VTC01/24, which is planned for the end of 1st quarter of 2024. NIPWG would be grateful for the assistance.

¹ Input document number, to be assigned by the Committee Secretary

² Leave open if uncertain

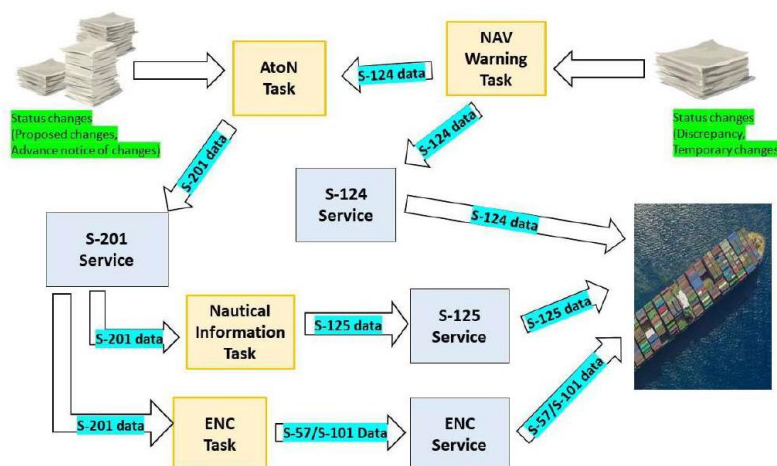


Figure 1 - Description of the AtoN task

NIPWG noted with thanks the S-125 development update [2] provided by Dr. Sewoong Oh from KRISO, and is looking forward to the continuation of the development. It should be noted that there is a significant uptick in interest among hydrographic offices to understand the role of S-125. To this end, there are indications that testbeds are being developed to explore the use of S-125. One such example is being developed by the Swedish Maritime Administration.

A submission from Bureau Veritas Marine & Offshore [3] was noted for its request to expand on S-123's ability to describe areas where connectivity was available as well as a description of the expected quality of service in that area. Such areas will be needed for MASS vessels. NIPWG has started looking at how to implement such information using the input from Bureau Veritas Marine & Offshore.

4 REFERENCES

- [1] NIPWG10-07.0A - NIPWG MRN IHO Level Guidance update
- [2] NIPWG10-11.3.1A - S-125 – Marine Aids to Navigation - Development update
- [3] NIPWG10-11.2.2B - Expanding S-123 Object List for Remote Operations

5 ACTION REQUESTED OF THE COMMITTEE

The Committee is requested to:

- 1 Note this paper
- 2 Take appropriate action