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Agenda item [[2]](#footnote-3) 8.4

Technical Domain / Task Number 2 …………………………………

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Plans for an S-124/S-125 testbed

# Summary

Singapore’s Maritime Port Authority (MPA) and Korea Research Institute of Ships and Ocean (KRISO) are preparing a submission for a S-124/S-125 testbed project to the IHO-Singapore Lab. The aim of the project is to test the interaction between S-124 and S-125 and wish to inform IALA of these plans.

# Background

At the IALA-IHO workshop on S-100 / S-200 held in Ålesund, Norway in September of 2022, the interaction of S-124 Navigational Warning services and S-125 Marine Aids to Navigation services was discussed. Through these discussions, it was clear that testing is necessary to better understand the interaction and to validate the proposed methodology under development by various groups under the IHO and IALA umbrellas. To this end, MPA and KRISO started having discussions for a potential testbed. The chair of the IHO-Nautical Information Provision Working Group and chair of the S-124 Navigational Warning Project Team has been consulted about the plans and have endorsed the efforts of MPA and KRISO. These discussions have matured into plans for a submission to the IHO-Singapore Lab for a testbed project to do some of this needed testing on the S-124 and S-125 interactions.

# Discussion

MPA and KRISO are preparing a submission for a testbed project to the IHO-Singapore Lab for testing the interaction between S-124 and S-125 in a navigational environment in Singapore utilizing 4G/5G cellular network.

The testing is planned for April of 2023 and aims to test the feasibility of updating navigational information using S-124 and S-125 services, as well as the process of transferring data between these different data services as the information goes through its lifecycle.

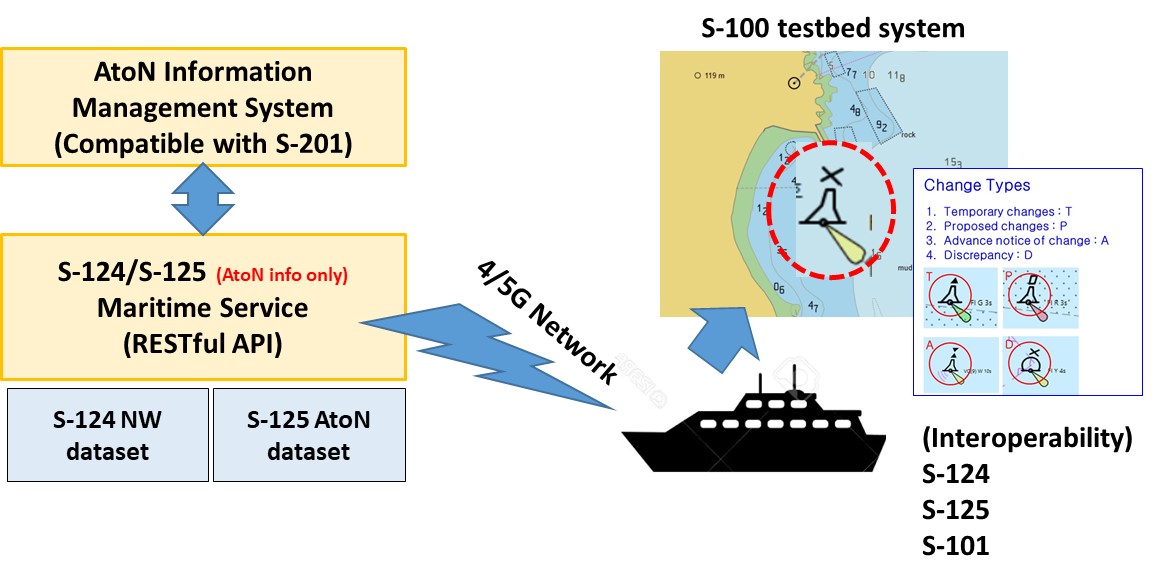


Fig. 1. Overview of testing the S-124/S-125 Service

The first step includes the document process as required by the IHO-Singapore Lab and is ongoing with the aim to fast track the process to facilitate the April, 2023 test plan. The chair NIPWG and S-124PT has been consulted and has endorsed the efforts by KRISO and MPA.

It is the plan to report on this testbed project outcomes to subsequent meeting of the ARM committee, NIPWG and S-124 NW PT.

# Action requested of the Committee

The Committee is requested to:

1. Note this paper

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-2)
2. Leave open if uncertain [↑](#footnote-ref-3)