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Maritime Service description for the

“MS-2 – Aids to Navigation” Service

# Summary

The **MS-2 – Aids to Navigation (AtoN) Service** enhances maritime safety by providing real-time, standardized AtoN information. It aligns with the **IMO e-Navigation strategy**, ensuring global harmonization. The service covers **physical, virtual, and synthetic AtoNs**, delivering updates on hazards, routes, and navigation conditions. **AtoN data flows** from authorities to vessels, coastal agencies, and maritime stakeholders using **IHO S-100 data models**. Users can **retrieve, subscribe to, and verify** AtoN updates via secure, automated systems. It supports **SOLAS and non-SOLAS vessels**, hydrographic offices, and search & rescue services. The system ensures **data integrity, interoperability, and real-time updates**. Automation reduces manual efforts, enhancing efficiency and reliability. Secure, standardized communication facilitates seamless integration with maritime navigation systems. The MS-2 service ultimately **improves situational awareness and maritime safety worldwide**.

## Purpose of the document

## The purpose of this document is to provide a holistic overview of the *MS-2 – Aids to Navigation Service* and its building blocks in a technology-independent way. The aim is to outline the e-Navigation context of the service, establish the captured user needs which justify a business case for it, and finally support the service architects in creating a description on the involved technical services at a high level of abstraction

## Related documents

ARM19-8.4.2

# Background

During the presentation of the input documents at ARM19 it was recognised that there was a piece of information missing which was needed to bridge the gap between the very high level description of the maritime services in the relevant IMO MSC circular and the very technical information provided by the SERVICE DESIGN FOR THE PROVISION OF ATON INFO SERVICE TO END-USERS USING SECOM. Therefore the working group started on the description of the related maritime service using the G1155 and template for this task. The work on the document was progressed intersessionaly.

# Action requested of the Committee

The Committee is requested to:

1. Review and finalize the document

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