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Author(s) / Submitter(s) Nikolaos Vastardis / IG 7.1.14

# 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

ARM20-8.5.1

# Background

At ARM20 the previous version was progressed and deemed not ready yet. The work on the document was therefore 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)