



IALA RECOMMENDATION

R1019

PROVISION OF MARITIME SERVICES IN THE CONTEXT OF E-NAVIGATION IN THE DOMAIN OF IALA

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THE IALA COUNCIL

RECALLING:

- 1 The function of IALA with respect to the safety of navigation, efficiency of maritime transport and protection of the environment.
- 2 Article 8 of the IALA Constitution regarding the authority, duties and functions of the Council.
- 3 That IALA has been recognised as a domain coordinating body with respect to certain Maritime Services, as identified in IMO Resolution MSC.467(101) on Guidance on the definition and harmonisation of the format and structure of Maritime Services in the context of e-navigation.
- 4 That IALA and other domain coordinating bodies (e.g. IHO, IMPA, WMO) are developing Maritime Services in the context of e-navigation.

RECOGNISING THAT:

- 1 Digitalisation in the maritime domain is advancing rapidly. The shipping industry is experiencing increasing levels of digitisation and automation on board and ashore, the growing electronic exchange of digital information and the advent of digital maritime services.
- 2 These trends will lead to:
 - a The need for increased and improved connectivity.
 - b Increased safety and efficiency of shipping and enhanced environmental protection.
- 3 Whilst improved connectivity offers many benefits and cost savings, existing systems present some challenges. These challenges include:
 - a Lack of harmonisation and interoperability.
 - b Lack of capacity to accommodate growing and complex data needs.
 - c Limited capability to use Internet Protocol (IP) based data exchange.
 - d Lack of security in data exchange.

NOTING THAT:

There is now a compelling need to ensure:

- a The harmonisation of services and data models, in order to enable interoperability between systems.
- b A modern, fit-for-purpose communication infrastructure for the exchange of digital information.
- c Resilience and security, identity and authentication by design of systems, networks and services.
- d Cybersecurity (e.g. availability, integrity and confidentiality) of systems, networks and services.

CONSIDERING the proposals of the IALA e-Navigation Information Services and Communications Committee,

RECOMMENDS that IALA Members:

- 1 Contribute to the development, specification, testing and demonstration of Maritime Services in the Context of e-Navigation, to define international standards.
- 2 Provide Maritime Services in digital formats, using international standards.
- 3 Ensure that a communications infrastructure to provide such digital maritime services is available in their area of responsibility.
- 4 Ensure harmonisation and interoperability, by taking into account international standards and guidance for:
 - a Digital maritime services.
 - b The communications infrastructure.
 - c System design and cybersecurity (e.g. availability, integrity and confidentiality).
- 5 Ensure their services are developed and harmonised with other and authenticated maritime services that are the responsibility of other domain coordinating bodies.

REQUESTS the e-Navigation Information Services and Communications Committee, or other Committees as the Council may direct, to keep this Recommendation under review and to propose amendments as necessary.

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