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| IALA Recommendation |

R-XXXX

THE PROVISION OF maritime services in the Context of e-Navigation

Edition 1.0

December 2019

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THE IALA COUNCIL

**RECALLING**:

1. The function of IALA with respect to 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.

**RECOGNISING THAT**:

1. Digitalisation in the maritime domain is progressing rapidly. The shipping industry is witness to increasing levels of digitalisation and automation on board, growing electronic exchange of information between ship and shore and the advent of digital maritime services.
2. This trend leads to the need for increased and improved connectivity – both between ships and between ship and shore.
3. While connectivity offers many benefits and cost savings, legacy arrangements throw up challenges. They lack interoperability and miss capacity for growing (and complex) data needs and are not Internet Protocol (IP)-based. Also, users cannot easily verify whether received information is not compromised and is from a trusted source or not.

**NOTING**:

That there is now a compelling need to ensure:

* 1. the necessary interoperability between services, systems, processes, functionality, data models and communications frameworks,
  2. the availability of modern, fit-for-purpose communication frameworks for the exchange of digital information between entities in the maritime domain,
  3. resilience, including cybersecurity (i.e. authenticity, integrity and confidentiality), in networks, systems and services.

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

**RECOMMENDS** that National Members and other appropriate authorities:

1. Provide their Maritime Services in the Context of e-Navigation in an interoperable way by using internationally agreed standards and digital formats.
2. Ensure that a communications framework to provide such maritime services is available in their area of responsibility.
3. Ensure any implemented communications framework:
   1. is harmonised globally and fully interoperable,
   2. addresses resilience, including cybersecurity (i.e. authenticity, integrity and confidentiality), using relevant international standards, and
   3. is efficient, robust and ensures safety.

**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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