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| IALA Recommendation |

R0145 (V-145)

The Inter-VTS Exchange Format (IVEF) Service

Edition x.x

Date (of approval by Council)

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Revisions to this document are to be noted in the table prior to the issue of a revised document.

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THE COUNCIL

**RECALLING**:

1. The function of IALA with respect to Safety of Navigation, the efficiency of maritime transport and the protection of the environment.
2. Article 8 of the IALA Constitution regarding the authority, duties and functions of the Council.

**RECOGNIZING**:

1. The [insert brief background text related to the Recommendation].
2. [insert brief background text related to the Recommendation].

**CONSIDERING** the proposals of the [e.g., IALA Aids to Navigation Requirements and Management Committee],

**NOTING** that [e.g., the International Maritime Organisation in Assembly Resolution A.857(20) on Guidelines for Vessel Traffic Services…]

**ADOPTS** the Recommendation on [e.g., Disaster Recovery], [e.g., as described in annex A and/or as amplified in IALA Guideline nnnn],

**RECOMMENDS** National members and other appropriate Authorities providing marine aids to navigation services comply with [e.g., the following international standard]

**INVITES** Members and marine aids to navigation authorities worldwide to implement the provisions of the Recommendation,

**REQUESTS** the [e.g., IALA Aids to Navigation Requirements and Management Committee or such other committee as the Council may direct] to keep the Recommendation under review and to propose amendments, as necessary.

**RECALLING** that one of the aims of the Association is to foster safe, economic and efficient movement of vessels and the protection of the marine environment through the improvement and harmonisation of aids to navigation, vessel traffic services and other means world-wide;

**RECOGNIZING** that the e-Navigation architecture will assist in the development and maintenance of application interactions between ship and shore and shore to shore, in the following fields:

* shore-based technical e-Navigation services;
* technical means for communication;
* data modelling and referential data;
* Human-Machine Interface presentations;

**RECOGNIZING ALSO** the responsibilities of IALA National Members regarding national and international e-Navigation applications:

* that the shore-based e-Navigation systems of National Members are embedded into local, regional, national, supra-national and global topologies of systems;
* that there are data/information flow chains within the local, regional, national, supra-national and global topologies of systems which support local, regional, national, supra-national and global e-Navigation applications;
* that requirements regarding quality parameters, such as accuracy, reliability, continuity, confidentiality, and others, will need to be taken into account when designing elements of the common shore-based e-Navigation system architecture;

**RECOGNIZING FURTHER** that the **I**nter-**V**TS **E**xchange **F**ormat (IVEF) service, as laid out in this Recommendation, will assist in the efficient deployment of services to the mariner and to the maritime community by:

* allowing shore-based systems of National Member and other appropriate Authorities and Entities to participate in harmonised data exchange;
* easing the integration of components;
* improving the efficiency in organisational terms by exploiting commonalities;
* harmonising data exchange to systems of other shore-based stakeholders (local, regional, national and global);
* taking into account the value, timeliness and sensitivity of data;

**NOTING that**

* IALA Recommendation R0140 (e-NAV-140) on ‘The e-Navigation Architecture – the Initial Shore-based Perspective’ [1];
* IMO’s strategic plan regarding e-Navigation [2];
* that IMO expressed an interest in the contribution of IALA to the work on e-Navigation [3];

**ADOPTS** the Guidelines on the Inter-VTS Exchange Format (IVEF) Service set out in the annex to this Recommendation; and,

**RECOMMENDS** that National Members and other appropriate Authorities and Entities, introducing an IVEF Service into their shore infrastructure, take into account the principles as set out in the Guidelines on the Inter-VTS Exchange Format (IVEF) Service.