

IALA COUNCIL
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Agenda item 9 – IALA TECHNICAL ACTIVITIES

9.5 ENAV

9.5.8 Draft IALA Recommendation e-NAV- on Product Specification Development and Management

Note by the Secretariat

This is a new draft Recommendation produced by the ENAV Committee at its 16th session.

It recommends that:

- AtoN Providers make use of the IHO GI Registry for the provision of e-Navigation products;
- AtoN Providers note the IALA domains management procedures as described in the relevant IALA guidelines when developing e-Navigation products;
- AtoN Providers provide IALA with the technical capability and expertise for the development of e-Navigation Product Specifications.

The Annex to the Recommendation sets out the rationale for the Recommendation.

Action requested from Council:

The Council is invited to approve the Recommendation.

Draft
IALA Recommendation e-NAV-145
on
Product Specification Development and
Management

Edition 1.0
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Document Revisions (Title style)

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

Date	Page / Section Revised	Requirement for Revision

IALA Recommendation on Product specification development and management (Recommendation e-NAV-145)

THE COUNCIL:

RECALLING the function of IALA with respect to Safety of Navigation, the efficiency of maritime transport and the protection of the environment.

RECOGNISING that harmonized information exchange products will

- Assist in the platform and system independent exchange of information.
- assist in the development of applications for information exchange ship to ship, ship to shore, shore to ship, and shore to shore in the context of e-Navigation;
- assist administrations in the efficient deployment of their operational and technical services and to maintain them with the service levels published in their maritime service portfolios.

NOTING

- that a strategy for the implementation of e-Navigation has been established by the **International Maritime Organisation (IMO)** as well as an implementation plan for that strategy and that both are relevant to IALA and IALA membership;
- that IMO has established user needs for both shipboard and shore-based users and has stipulated that the implementation of e-Navigation should satisfy those user needs;
- that IMO has initially defined the overarching architecture for e-Navigation which includes, amongst other things, the notion of a 'common shore-based technical system harmonised for e-Navigation' as well as the concept of operational and technical services embedded in the overarching concept of the Maritime Service Portfolios (MSPs);
- that IMO has expressed an interest in the contribution of IALA to the work on e-Navigation and has recognized Coastal states' VTS provisions and their shore-based infrastructures in their enabling role for e-Navigation as well as IALA's role in this regard;
- that the IMO e-Navigation strategy has a core objective to support maritime transport processes, including the maritime logistics chain, and that the IMO Secretary General has published a concept of a Sustainable Maritime Transportation System (SMTS) which references IALA's work regarding the 'maritime traffic support and advisory systems'.

NOTING ALSO that the **International Hydrographic Organisation (IHO)**

- has established a Geo-spatial Information Registry (GI Registry), as defined in their publications S-100 and S-99 and has introduced the notion of 'products' as an internationally unified rule base for the combination of different parts of the GI Registry to 'products';
- that IMO has decided that the IHO standard S-100 should be the baseline for the IMO envisaged Common Maritime Data Structure (CMDs);
- that IALA has acquired the status of a 'Submitting Organisation' and of a 'Domain Owner' to the IHO's GI Registry;

RECOMMENDS that National Members and other appropriate Authorities providing aids to navigation services:

- For the provision of e-Navigation products to make use of the IHO GI Registry;
- When developing e-Navigation products, note the IALA domains management procedures as described in the relevant IALA guidelines;
- Provide IALA with the technical capability and expertise for the development of e-Navigation Product Specifications.

The rationale for this recommendation can be found in Annex A.

Annex A

Rationale for recommendation

1 INTRODUCTION

In January 2010 the International Hydrographic Organization (IHO) adopted S-100, a framework geospatial standard for hydrographic and related data. IHO S-100 is aligned with the ISO 19100 series of geographic standards – thereby making the use of hydrographic and other geographic data more interoperable than using the present IHO S-57 data transfer standard.

IMO NAV at its 57th session agreed on the use of the IHO GI Registry as a baseline for the collection, exchange, and distribution of data, supporting a greater variety of information and therefore supporting increased interoperability. This was the first step towards the Common Maritime Data Structure (CMDs), essential for e-Navigation.

IALA Council has approved the participation of IALA in the IHO GI Registry as a Submitting Organisation, and as a domain owner (i.e. the IALA domains within the Registry).

IALA committees and contributors will populate the IALA Domain within the Registry.

In order to provide harmonised e-Navigation services in accordance with the IMO prioritised Maritime Service Portfolios and solutions it is necessary that entries in the IALA domains will be done in accordance with the procedures in place.

1.1 IALA as Domains manager

IALA will act as Domains manager for the IALA Domain of the IHO GI Registry. The Domains Manager is responsible for the entries in the different registers of the Registry and the overall management of the submission process of Product Specification and Features. The Domains manager is also responsible for the harmonisation process with regard to register entries among Field managers and other Domain owners.

1.2 Harmonization and development of e-Navigation services

To facilitate information exchange between the different maritime stakeholders it is necessary that the provision of these services are harmonised. To achieve harmonisation and potentially reduce development costs it is recommended that IALA members provide the required technical knowledge and combine their efforts in the development of e-Navigation Product Specifications.