# VTS TG-2.3.2 Develop an IVEF Product Specification

# Background

IALA Recommendation V-145 is being revised and the relevant parts are moved to an accompanying guideline and the IALA S-210 product specification.

# Scope and object of the task

The scope of the task is to develop a next edition of recommendation R0145, an accompanying guideline and a product specification (PS). Note that the PS is not intended to provide portrayal since IVEF is a data interchange format. IVEF will also be one of the first product specifications that will use streaming as data delivery method.

An important part of the work towards a PS is the definition of the IVEF data model in the IHO GI-registry. This consists of harmonizing with existing GI registry entries, revising GI entries, where needed, and creating new entries. Note that, during this process, it may be necessary to generalize some existing IVEF entries without affecting the current standard. The outcome of the work is a complete definition of IVEF data items in the IHO GI registry such that they can be referenced in the IVEF documents.

Once a first PS is available, it should be subject to test and validation (as defined by IHO). Industry members are invited to take part in this test and validation process and provide feedback. An advantage is that their IVEF implementations will conform to the (formal) specification.

* 1. Task process

Diagram

Description automatically generated

# S-210 IVEF Product Specification

3.1 Scope of the PS

The possible uses of S-210 are anywhere where a traffic situation needs to be shared. This includes real-time, tactical and strategic situations.

3.2 Development plan and timeline

* Review and update IVEF data item definitions and align with the IHO GI Registry
* Update the R0145 recommendation and move relevant sections into a new accompanying guideline
  + Where necessary, consider new features and attributes (e.g. needed for MASS, inland waterway uses)
  + If needed, revise the conceptual schema
* Create a formal product specification (ed. 1.0)
* Test and validate the product specification
* Gather feedback and, where needed, update the specification / guideline

The proposed timeline for these activities is

* Review and update of the data dictionary definitions; proposal for update of the IHO GI Registry : VTS 54 / 55 with a proposed intersessional meeting end 2023 / early 2024
* Revision of R0145 and production of a draft guideline : VTS 56
* Development of the IVEF S-210 Production Specification, ed. 1.0 (for test and validation) and final versions of recommendation R0145 and the accompanying guideline: VTS 57
* Evaluation of the feedback on the test and validation process of the PS, ed. 1.0. : VTS 58
* S-210 Product specification, ed. 2.0 for implementation and operational use : after VTS 59

# References

Draft versions of documents and specification for S-210 will be made available on the IALA file share:

<https://nextcloud.iala-aism.org/index.php/apps/files/?dir=/Committees/VTS/>

The IHO GI Registry can be found at

https://registry.iho.int/fc/list.do