

From: IALA
To: IHO NIPWG

C80-12.1.2

LIAISON NOTE

Development of a technical service specification for provision of AtoN information

1. INTRODUCTION

The IALA ARM Committee has been working on a technical service specification for the provision of AtoN information, following the guidance of *Guideline G1128 Specification of e-Navigation Technical Services*. The specification could be associated with the Maritime Service 2 'Aids to Navigation Service' and Maritime Service 12 'Nautical Publications Service' in the IMO maritime service portfolio (*IMO Circular 1610*, as revised).

Recalling that Guideline G1128 defines 3 levels of a technical service specification:

1. A service specification
This comprises a high level - technology agnostic description with reference to a data-model. The data-model in this case being a specific version of S-125.
2. One or more service designs
Each service design describes how to implement the service using a specific technology. This could for instance be SECOM or MCP MMS.
3. Several service instance (relating to a specific service design). This describes a specific instance of a service, provided by for instance a national hydrographic office. Each instance contains an endpoint to the service (a url or mrn in the case of SECOM or MMS respectively), and additional information such as geographical coverage area.

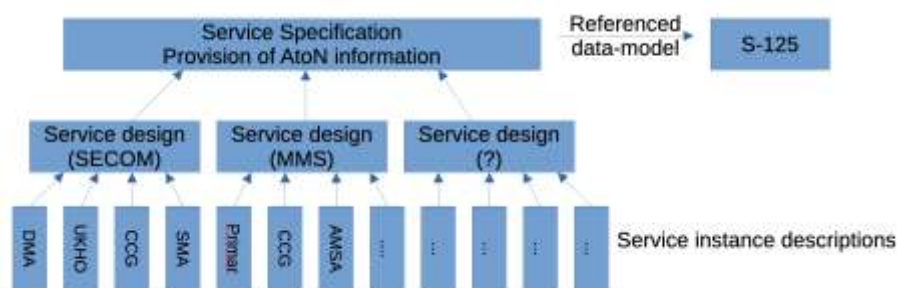


Figure 1: Relationship between service specification, service design, service instance and product specification

During its 18th session, the IALA ARM Committee decided that a level of sufficient maturity was reached and decided to publish the service specification (high level, technology agnostic) in version 1.0. It is relevant to note that IALA has adopted the versioning principles for service specifications that

align with what IHO is using for S-100, therefore version 1.0 means ready for testing - and an eventual final version for operational use will be versioned 2.0. This service specification is provided as annex to this liaison note.

The ARM Committee will continue to work on a service design for this service specification - which will describe how this service should be implemented using a specific technology. The initial technology is envisioned to be SECOM (IEC 63173-2).

Testing of the service is currently being conducted under the Open Digital Incubator initiative (digitalincubator.maritimeconnectivity.net). The tests will comprise several service instances and consumer clients in order to ensure interoperability and feedback will be provided to IALA in preparation of version 2.0. An open source implementation of a test service is available on the web-site.

2. ACTION REQUESTED

The IHO NIPWG is requested to note the information, and give any feedback on the specification (C80-12.1.2.1) to IALA as they find appropriate.

The IHO NIPWG is requested to determine what MRN the service specification should have.