**NIPWG VTC-04 2021 7.1.1**

## Paper for Consideration by NIPWG

## Information about IALA's work on service specifications for the provision of AtoN information

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| ***Submitted by:*** | Vice Chair, IALA ARM Committee |
| ***Executive Summary:*** | IALA has been working on S-100 product specification for AtoN's, namely S-201 and S-125. The purpose of this paper is to inform IHO that IALA recently have extended this work to include service specification, and thereby defining how this type of data can be exchanged in a harmonised way. |
| ***Related Documents:*** | Guideline on the specification of e-navigation technical services. (IALA G1128)  Guidance on the definition and harmonization of the format and structure of maritime services in the context of e-navigation (IMO MSC.467(101))  Guideline on web-service based S-100 data exchange (IALA G1157)  Secure communication between ship and shore (IEC 63173-2) (SECOM) |
| ***Related Projects:*** |  |

## Introduction / Background

A core part of the e-navigation process will be to develop technical service specification that will define how data can be exchanged in a contemporary way within the maritime domain. These technical services will be part of an overarching (non-technical) maritime service, and they will use data models from S-100 product specifications. For example, IMO has defined a maritime service called 'maritime safety information' and this service will reference a number of technical services, for instance a technical service for the provision of navigational warnings, which will use the data model from the relevant product specification, i.e. S-124. The relationship between maritime services, product specification and technical services are described in IMO resolution MSC.467(101) ‘guidance on the definition and harmonization of the format and structure of maritime services in the context of e-navigation’.

IALA has provided a guideline (G1128) describing how to define technical services. This guideline is technology agnostic. In addition to this, IALA guideline G1157 describes how to define web-services within G1128 and the IEC standard IEC 63173-2 (SECOM) for how to define web-services with data models based on S-100 product specifications.

Thus, IALA has started to develop technical services specifications for the provision of AtoN information following the above mentioned standards and guidelines (G1128, G1157 and SECOM). More specifically, IALA is developing two service specifications;

One service specification intended to provide information from AtoN authorities to hydrographic authorities and other stakeholders needing enhanced AtoN information. This service will use the data-model from S-201.

One service specification intended to provide AtoN information from authorities (possibly hydrographic authorities) to end users (primarily ECDIS, but also other systems that requires AtoN information, like VTS / port systems). The service would use the data mode from S-125.

The annex to this document is the current draft of the technical service specification for AtoN information to end users (ECDIS) based on S-125. Currently the draft only contains the 3 chapters 'Introduction', 'Service identification' and 'Operational context'.

## Action Required of NIPWG

The NIPWG is invited to note the information and provide feedback to IALA if deemed appropriate.

Annex A