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| From: ENAV Committee | ARM14-8.4.1 |
| To: ARM Committee |  |

LIAISON NOTE

Work on the specification of technical e-navigation services for the promulgation of AtoN information

# Introduction

During ARM12 it was during the discussions of S-125 proposed to initiate work on technical services for the provision of AtoN information. It was furthermore proposed that this work should be done in collaboration with the e-navigation committee. Thus agreement was made that this work should be undertaken by ARM WG2 in collaboration with ENAV WG1.

During ENAV27, a new task group (TG) under WG1 was established in order to work on this item.

# Work during ENAV27

The established TG initially came up with the following definition of the work and the scope and context of this:

The title of the work should be

Developing technical service specifications for the provision of AtoN information

Two service specifications should be made

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

Both service descriptions would follow the IALA guideline for the specification of e-navigation technical services - G1128.

Recollecting that services specified following G1128 has three level;

Service specification including the data-model

For each service specification there will be one or more (should be few) technical designs describing how the service will be implemented using specific technologies

For each technical design there will be one or more (probably many) service instances, defining endpoints (addresses - for instance url's) for where the specific service following the specific technical design can be found

So for this work there will be two high level services which use the data-models from S-201 and S-125 respectively.

For each of these services, several technical designs will probably be made in the future, but to begin with, technical design using web-service / internet technology will be made. This means that these technical designs should follow the IALA guideline for web service based S-100 data exchange; G1157. Since G1157 also references the IEC SECOM standard - this should also be used.

Instance specification are quite simple, and one or two example instance description will also be defined.

## The relationship with Maritime Services (in the context of e-navigation)

It is the expectation that these services would be referenced in several different Maritime Services (as defined by IMO). The service for end users (S-125) would probably be referenced in for instance MS12 - nautical publications. The service for rich AtoN information (S-201) will probably be referenced from a new proposed Maritime Service focusing on the provision of aids to navigation.

## Getting started on the specifications

During the ENAV TG it was suggested to look at an existing draft service specification for navigational warnings that uses the datamodel from S-124. This draft service description also follows both G1128, G1157 and SECOM.

It is important to stress that this service specification for navigational warnings in only an informal draft - it has not been endorsed by IHO - under which domain such a service of course should reside. However it is believed that this draft specification would provide a good example for the development of services for AtoN information.

The draft specification for a navigational warning service is included in Annex 1

# Action requested

The ARM committee are requested to:

1. Review the definition and scope of work as proposed by the ENAV committee
2. Progress the work on the service specifications
3. Liaise with IHO