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| From: ENAV Committee | ENAV30-12.1.2 |
| To: PAP | 30 September 2022 |

LIAISON NOTE

Example of the use of Maritime Resource Names for Technical Services

# INTRODUCTION

Maritime Resource Names (MRNs) are an agreed identification mechanism for maritime resources supported by IALA. Technical Services (TS) are one of the building blocks of Maritime Services in the context of e-Navigation and an enabler of harmonized and seamless data and information exchange in digital format. TS comprise a set of technical solutions, including data models and communication means to provide a Maritime Service, and MRN underpins the communication as the unique identifier.

Some of the TS specifications are still under development, and there is a need to promote better understanding by the domain coordinating bodies and internal organs of IALA.

This document provides guidance on the use of MRN for Technical Services with examples.

# REFERENCE DOCUMENT

* 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
* NCSR 9-7-2 - Development of Maritime Services descriptions (IALA)
* VTS53-12.2.1 Liaison note to PAP and ARM on the Draft description of Maritime Service 1- VTS and associated document

# TECHNICAL SERVICE AND MRN EXAMPLES

Technical Services utilizing Product Specifications based on the S-100 framework, are brought together to deliver Maritime Services. Each TS would have a unique MRN based on a general scheme consisting of 4 parts:

* urn:mrn – static part that every MRN begins with
* <oid> – ID of the standardisation body of the resource
* <type> – the type of the resource, which for Technical Services would be “ts:spec”
* <id> – the identification part

Taking above scheme into consideration an MRN of an example TS under the IALA domain would be:

* urn:mrn:iala:ts:spec:1234

Below are some of the examples of the Technical Services related to VTS:

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| Name | ID (MRN) | Description | Standardisation Body |
| Voyage Information Service | urn:mrn:iala:ts: spec:vis\* | The service supports exchange of voyage plans, text messages and area messages. | [IALA] |
| Meteorology Service | urn:mrn:wmo\*\* | The service supports the provision of information which could include the speed and direction of the prevailing wind, direction and height of the waves, visibility, atmospheric pressure, the formation of ice, etc. | [WMO] |
| Meteorological Warnings Service | urn:mrn:wmo\*\* | The service supports the provision of warnings concerning gale, storm, tsunami, restricted visibility, etc. | [WMO] |
| Hydrographic Service | urn:mrn:iho\*\* | The service supports the provision of information which could include factors such as the stability of the seabed, sea depth, the accuracy of surveys, tidal ranges, tidal streams, prevailing currents and swell, etc. | [IHO] |
| AtoN Information Service to End-users | urn:mrn:iala:ts: spec:atoninfo\* | The service supports the provision of Aids to Navigation information for end-users (primarily navigators). | IHO, IALA |
| Service for Provision of Navigational Warnings to End-users | urn:mrn:iho:ts: spec:navwarn\* | The service supports the provision of safety related messages such as dangerous wrecks, obstacles not otherwise promulgated, diving operations, vessels not under command, etc. | [IHO] |
| Route Information Service | urn:mrn:iala:ts: spec:ris\* | The service provides route recommendations and/or route validation for ships. | [IALA] |
| Slot Management Service | urn:mrn:iala:ts: spec:sms\* | The service allocates ships in a time window to ensure safe voyage in the VTS area. | [IALA] |
| Traffic Clearance Service | urn:mrn:iala:ts: spec:tcs\* | The service provides vessels with permission to proceed, impose conditions or deny clearance. | [IALA] |
| Anchorage Assignment Service | urn:mrn:iala:ts: spec:aas\* | The service assists ships into anchorage position by assigning anchorage areas/positions. | [IALA] |

\*not official designation, for example only

\*\*should be defined in due course

# ACTION REQUESTED

The PAP is requested to note the examples and consider using them for the consolidated IALA MS input to IMO NCSR 10.