Input paper: [[1]](#footnote-2) PAP38-5.8.3.1

Input paper for the following Committee(s): Purpose of paper:

**□** ARM **□** ENG **x** PAP **X**  Input

**□** ENAV **□** VTS **□** Information

Agenda item 5.8.3

Technical Domain / Task Number N/A

Author(s) / Submitter(s) Secretariat

Scope of MRN

# Background

Navigationally, unique objects such as AtoN, VTS and other maritime services require identification numbers to avoid duplication and misalignment of information. Maritime Resource Name (MRN) is a naming scheme that can uniquely identify any maritime resource on a global scale.

IALA Council 69 approved the Guideline 1143 on Unique identifiers for Maritime Resources in June 2019. The document proposes that the use of unique identifiers is a necessary development of e-Navigation to maintain harmonization across domains and services. This Guideline defines requirements, syntax and areas of application of AtoN, VTS and Waterways.

# MRN distribution

The MRN and the associated experimental namespaces can be applied in numerous areas within the maritime domain, and other maritime stakeholders are invited to adopt this syntax for creation of unique identifiers, through registration defined in the G1143.

The list of Organization IDs registered in IALA is as follows;

|  |  |  |
| --- | --- | --- |
| Organization IDs | Date | registering organization |
| urn:mrn:iala: | 2017-07-30 | IALA  http://www.iala-aism.org |
| urn:mrn:iho: | 2018-04-04 | IHO  http://www.iho.int |
| urn:mrn:mcl: | 2017-06-22 | Maritime Cloud Development Forum (MCDF)  http://www.maritimecloud.net |
| urn:mrn:gs1: | 2018-10-30 | GS1 Global Office  [www.gs1.org](http://www.gs1.org/) |
| urn:mrn:mission: | 2019-2-01 | Manage Information Seamlessly in Ports and Hinterlands (MISSION)  <https://www.lhg.com/index.php?id=239> |
| urn:mrn:ipcdmc: | 2019-06-26 | International Port Collaborative Decision Making Council (IPCDMC)  [http://www.ipcdmc.org](http://www.ipcdmc.org/) |
| urn:mrn:stm: | 2019-03-28 | Sea Traffic Management (STM)  <https://www.stmvalidation.eu/> |

# 2.1 Example of domain and namespace

* Marine Aids to Navigation
* urn:mrn:iala:aton:us:1234-5
* urn:mrn:iala:aton:gb:sco:6789-1

# Discussion

**Committee work on MRN**

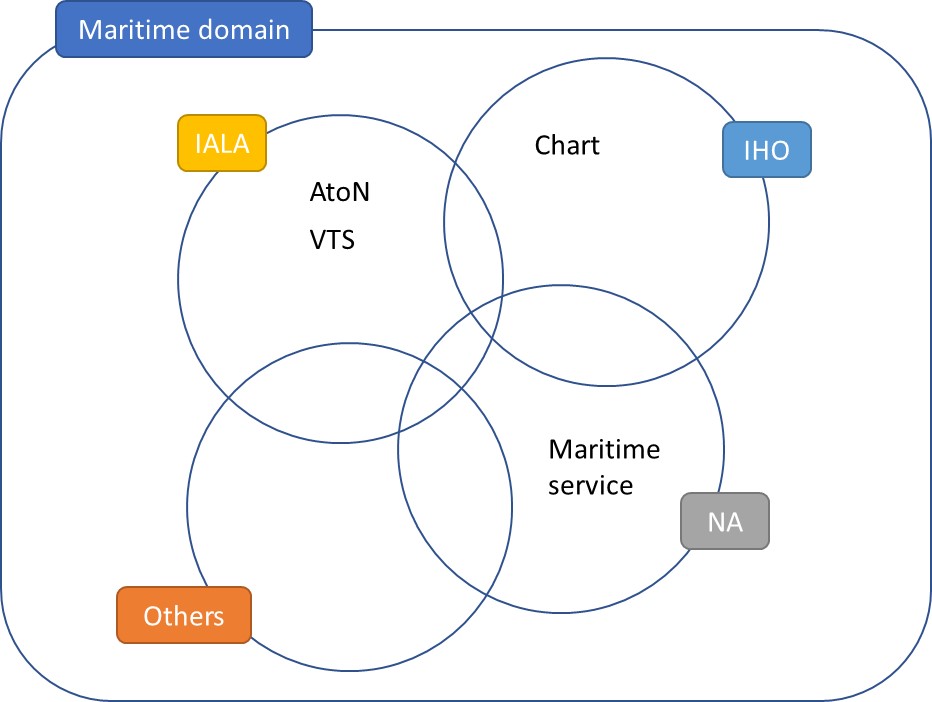
Since Council 65 approved the new Committee structure, MRN task has been transferred to ARM from ENAV. At ENAV23 in April 2019, there was a discussion on the usage structure of MRN and a liason note (ENAV23-12.1.5) was prepared, and ENAV requested ARM to liase with the development of the Guideline.

**National Authority level MRN**

A few e-Navigation projects finish their experimental phase soon, so the allocated MRNs could be transferred to the National Authorities with permanent Organization ID.

At National Authority level, subjects such as vessels, devices, users, systems and services could be allocated under the country code which follows the ISO 3166-1 alpha-2 standards codes. National Authority level MRN domain and namespaces could be assigned by the responsible National Authority which is agreed by its competent authorities on a national basis.

* VTS
* urn:mrn:iala:vts:us:123-1
* Maritime Service and Waterways
* urn:mrn:us:vessel:1234567
* urn:mrn:us:vessel:1234567
* urn:mrn:us:device:1234567



# Action requested of the Panel

PAP is requested to note the information provided, discuss the principles to be applied for MRN and act as appropriate.

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-2)