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| IALA Guideline |

Guideline XXXX

On Maritime Service Portfolios for VTS

Edition 0.1

Date (of approval by Council)

*Revokes Guideline [number]*

Revisions to this IALA Document are to be noted in the table prior to the issue of a revised document.

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| Date | Page / Section Revised | Requirement for Revision |
| 22.3.2017 | Initial Document Draft | New Guideline |
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**Kuvaotsikkoluettelon hakusanoja ei löytynyt.**

# INTRODUCTION

## General Description

General on MSP's

When developing the IMO e-Navigation strategy to improve safety and efficiency of sea transport it became clear that digital services provided to ships are an essential part of this initiative. In order to best describe, structure and implement those services, IMO introduced the concept of “Marine Service Portfolios” (MSPs).

A “Maritime Service Portfolio (MSP)” defines and describes the set of operational and technical services and their level of service provided by a stakeholder in a given sea area, waterways or ports, as appropriate. (NAV 57/6 para 23)

[from draft MSP guideline]

# Objectives

This guideline is mainly for providers of services defined in MSPs to understand what is expected by the maritime community if a dedicated provider of such services is declaring the availability of an MSP in their jurisdiction. It provides the basic information on the defined MSPs. It describes the objectives to be achieved with the MSP as well as a short explanation of the MSP. It also includes references to other MSPs, which may be associated to the specific MSP in question.



NOTE: Expand by descripting the digital transformation process from traditional communication to digital and how to run those in parallel.

[from draft MSP guideline]

The services described within this guideline can be implemented in full or in part, based on individual service providers local circumstances

[from draft MSP guideline]

The aim of this document is to ….

Identification of present and potential services for VTS which may be covered by the Maritime Service Portfolio in accordance with its definition by IMO under e-navigation;

Identification and defining servicing areas for VTS Maritime Service Portfolio’s based on user requirements and technical capabilities;

Development of a set of criteria and conditions for competent VTS authorities to decide on the harmonized implementation and operation of Maritime Service Portfolio’s;

Contribute from a VTS perspective to the further development of e-navigation, including the delivery of product specifications for Maritime Service Portfolio’s;

[from VTS committee task registry 2014-2018]

IALA guideline 1089 gives guidance on the delivery of the three different types of services provided by a VTS; Information Service (INS), Traffic Organization Service (TOS) and Navigational Assistance Service (NAS).

This guideline defines the categories of information that could be exchanged electronically in respect of VTS.

The categories of services and the associated details are listed in annexes,

# Description

To create an environment that makes it attractive for industry to develop, test, market and maintain the required ICT tools, it is necessary to develop S-2XX Product Specifications for two information repositories:

* A library of templates of reports that shore-based authorities require including their format, contents and submission requirements.
* The part of the Common Maritime Data Structure (CMDS) that will support generation of the required reports.

## MSP 1

### Definition

Information Service is defined by IMO as “a service to ensure that essential information becomes available in time for on-board navigational decision-making” (Res. A857(20)).

### Scope

MSP 1 can be delivered in all sea areas (1-6).

Information Service will be provided for territorial waters of the VTS jurisdiction and for international waters as applicable.

### Objective

IALA guideline 1089 gives guidance on the delivery of the three different types of services provided by a VTS; Information Service (INS), Traffic Organization Service (TOS) and Navigational Assistance Service (NAS).

MSP 1 is defining the categories of information that could be exchanged electronically in respect of Information Services (INS).

The categories of services and the associated details are listed in annex 1, MSP 1 Information Service template.

Those categories may include for example: Waterway information, Traffic and route information.

Information Service may also utilise categories which are defined in other MSP's (see 4.1.5).

### User requirements

Information provided electronically could complement and/or replace VHF communication.

For example:

* Pre arrival reporting can be done electronically without VHF communication
* The content of the VHF communication can be transmitted electronically and be displayed as a text in parallel to voice communication.

### Relationship to other MSPs

* MSP5, Maritime Information Service
* MSP6, Pilotage Service
* MSP7, Tugs Service
* MSP8, Vessel Shore Reporting
* MSP10, Maritime Assistance Service
* MSP13, Ice Navigation Service
* MSP14, Meteorological Information Service
* MSP15, Real-time Hydrographic and Environmental Information Service
* MSP16, Search and Rescue Service

## MSP 2

### Definition

Navigational Assistance Service is defined by IMO as “a service to assist on-board navigational decision-making and to monitor its effects” (IMO Res.A857(20)).

### Scope

MSP 2 can be delivered in sea areas 1-4.

Navigational Assistance Service will be provided in territorial waters.

### Objective

IALA guideline 1089 gives guidance on the delivery of the three different types of services provided by a VTS; Information Service (INS), Traffic Organization Service (TOS) and Navigational Assistance Service (NAS).

MSP 2 is defining the categories of information that could be exchanged electronically in respect of Navigational Assistance Service (NAS).

The categories of services and the associated details are listed in annex 2, MSP 2 Navigational Assistance Service template.

Those categories may include for example: Navigational information, advice, instruction or warning.

### User requirements

All information related to this service should be displayed in real time.

Information provided electronically could complement VHF communication in time critical situations and in addition partly replace VHF communication in non-time critical situations.

Example of time critical situation:

* Risk of grounding; In addition to VHF communication, vessel can be provided with an electronic route recommendation.

Example of non-time critical situation:

* Assist a vessel to an anchoring position; provide the vessel with an electronic route recommendation without VHF communication.

## MSP 3

### Definition

Traffic Organization Service is defined by IMO as “a service to prevent the development of dangerous maritime traffic situations and to provide for the safe and efficient movement of vessel traffic within the VTS area” (IMO Res.A857(20)).

### Scope

MSP 3 can be delivered in sea areas 1-4.

Traffic Organization Service will be provided in territorial waters.

### Objective

IALA guideline 1089 gives guidance on the delivery of the three different types of services provided by a VTS; Information Service (INS), Traffic Organization Service (TOS) and Navigational Assistance Service (NAS).

MSP 3 is defining the categories of information that could be exchanged electronically in respect of Traffic Organization Service (TOS)

The categories of services and the associated details are listed in annex 3, MSP 3 Traffic Organization Service template.

Those categories may include for example: Waterway management, Traffic clearance.

### User requirements

Information provided electronically could complement and/or replace VHF communication.

Examples:

* Slot management; provide vessels electronically with timestamp, priority of arrival and distance between two vessels
* Traffic clearance; provide vessels permission to proceed, impose conditions or deny entry electronically

## Software Quality and Human Centered Design

ICT tools should comply with Software Quality Assurance (SQA) and Human Centered Design (HCD) guidelines specified in IMO MSC.1/Circ. 1512.

# Information

## CMDS

Reference to details in….

## ICT Environment

# Prerequisite maritime services

Must have at least MSP1….

# Examples

# DEFINITIONS

The definitions of terms used in this Guideline can be found in the International Dictionary of Marine Aids to Navigation (IALA Dictionary) at <http://www.iala-aism.org/wiki/dictionary> and were checked as correct at the time of going to print. Where conflict arises, the IALA Dictionary should be considered as the authoritative source of definitions used in IALA documents.

# ACRONYMS

BTH Beth/Anchorage

CC Country Code

CMDS Common Maritime Data Structure

HCD Human Centered Design

ICT Information and Communications Technology

IGR Inter Governmental Region (i.e. Schengen)

M2M Machine-to-machine interface

MC Maritime Cloud

MRN Maritime Resource Name

PRT Port (UN LoCode)

PS S-2XX Product Specification

SQA Software Quality Assurance

SR Ship Report Template Register

ST State/Province

UN United Nations

VSN Version

VSRS Vessel Shore Reporting Service