**TEMPLATE FOR A MARITIME SERVICE**

This template should be used by international organizations to describe the maritime services that are within their remit. Descriptions of maritime services provided to IMO using this template will enable IMO to exercise, leadership and overarching oversight and to provide a globally harmonized list of maritime services.

To ensure a standardized approach in the development and implementation of maritime services, the content should include a general description of the operational services, and a reference to associated technical services that will enable the exchange of information in digital format.

**1. Title of the maritime service (Maritime Service number)**

**2. Submitting Organization**

**3. Description of the maritime service**

Make statement on the exact nature and scope of the maritime service in accordance, if applicable, with existing IMO instruments. Additional details might be added for clarity as required.

**4. Purpose**

What is the purpose of the maritime service?

What value does it bring to its intended stakeholders?

Is the maritime service compliant with regulatory requirements, if applicable?

In the case that the maritime service covers existing services, a description of the steps required to transition from analogue to digital information promulgation must be included.

**5. Operational approach**

How is the purpose of the maritime service achieved, taking into account existing guidance of the Organization and other international bodies?

**6. User needs**

Describe the user needs the maritime service addresses. In so doing, make reference to any relevant IMO instruments and, where applicable, include one or more use cases.

**7. Information to be provided**

List the information elements the maritime service provides. The information elements will be the starting point for data modelling, as part of the technical services to access, promulgate or exchange the information.

**8. Associated technical services**

Using the table below list existing or potential technical services associated with this maritime service.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **ID (MRN)** | **Description** | **Architect(s)** | **Standardization body** |
|  |  |  |  |  |

**9. Relation to other maritime services**

Describe any relationships between this and other maritime services such as interdependencies or areas of overlap. This section should clarify the nature of interdependencies, overlaps and provide recommendations for their resolution.

Maritime Resource Name (MRN); see www.mrnregistry.org

***Maritime Safety Information Service (MSI)***

*The Global Maritime Distress and Safety System (GMDSS) as described in SOLAS Chapter IV defines the seventh functional requirement as: 'Every ship, while at sea, shall be capable of transmitting and receiving maritime safety information'.*

*The MSI service is an internationally co-ordinated network of broadcasts of Maritime Safety Information from official information providers, such as:*

* *National Hydrographic Offices, for navigational warnings and chart correction data;*
* *National Meteorological Offices, for weather warnings and forecasts;*
* *Rescue Co-ordination Centres (RCCs), for shore-to-ship distress alerts;*
* *The International Ice Patrol, for Oceanic ice hazards.*

***Nautical Chart Service***

*The aim of the nautical chart service is to safeguard navigation at sea by providing information such as nature and form of the coast, water depth, tides table, obstructions and other dangers to navigation, location and type of aids to navigation.*

*The Nautical Chart service also ensure the distribution, update and licensing of electronic chart to vessels and other maritime parties.*

***Nautical Publication Service***

*The aim of the nautical publication service is to promote navigation awareness and safe navigation of ships. The nature of waterways described by any given nautical publication changes regularly, and a mariner navigating by use of an old or uncorrected publication is courting disaster. Nautical publications include:*

* *Tidal currents,*
* *aids to navigation system,*
* *buoys and fog signals,*
* *radio aids to marine navigation,*
* *chart symbols, terms and abbreviations,*
* *sailing directions.*

*A Chart and Publication Correction Record Card system can be used to ensure that every publication is properly corrected prior use by mariners.*

***Real-Time Hydrographic and Environmental Information Services***

*The real time and forecast hydrographic and environmental information services are essential to safeguard navigation at sea and protect the environment.*

*The real time hydrographic and environmental information service is essential to safeguard navigation at sea and protect the environment. The service provided includes:*

* *current speed and direction;*
* *wave height;*
* *marine habitat and bathymetry;*
* *Sailing Directions (or pilots): detailed descriptions of areas of the sea, shipping routes, harbours, aids to navigation, regulations, etc.;*
* *Lists of lights: descriptions of lighthouses and lightbouys;*
* *tide surge prediction tables and tidal stream atlases;*
* *ephemerides and nautical almanacs for celestial navigation;*
* *Notice to Mariners: periodical (often weekly) updates and corrections for nautical charts and publications.*

***Maritime Service Portfolio (Hydrographic Services)***

*Provision of SOLAS V compliant static and real-time nautical information based on the S-100 universal hydrographic data model. The nautical information is also available for other stakeholders.*

*The information and updates are to be delivered and maintained in form of interoperable product specifications. The portrayal of information is harmonized. The provision of the information is based on a common data quality specification.*

*In addition to the protection of the environment, the aim is to promote navigation awareness, and safeguard navigation at sea by providing descriptive information such as but not limited to:*

* *areas of the sea,*
* *nature and form of the coast,*
* *nature of waterways,*
* *shipping routes,*
* *water depth,*
* *obstructions and other dangers to navigation,*
* *aids to navigation system,*
* *details of aids to navigation,*
* *harbours,*
* *tide surge prediction,*
* *tidal currents,*
* *tidal streams.*

*The real-time hydrographic and environmental information service provides information such as:*

* *current speed and direction,*
* *height of the tide,*
* *wave height,*
* *marine habitat and bathymetry.*

*A sophisticated licensing service is established.*

*A sophisticated distribution, and update service is established.*

*Hydrographic information coming from various sources (qualified and useful information for navigation, delivered in a timely manner) is being submitted in a push or pull mode directly to the end user system in a pre-processed format or with no additional intervention.*

*Provision of charted information.*