**Service Instance Description for the** xxx **Service**

1. INTRODUCTION

The *blue italic text* is meant to be replaced by those producing the Technical Service. The non-italic text is not necessarily meant to be replaced but maybe example text.

* 1. PURPOSE OF THE DOCUMENT

This template shall support the software architects and implementers in creating a description of the service implementation and instantiation (put down in writing), following the guidelines given in [1]. The template provides for each section descriptive instructions for the intended content. Formally, such instructions are written in blue italic font – they shall be deleted when writing the actual service instance description document. In addition, some parts of this template provide suggested text fragments that may be directly re-used in the service instance description document. Such proposed text fragments are given in black normal font.

The purpose of the service instance description document is to provide a detailed description of how a service is realised in software and hardware. In most cases, this document will be rather short, since it is expected that the implementation follows the technical design and it is not supposed to replicate any information from the service design description document. The service instance description document contains:

* identification and summary of the service instance:
* reference to the service design description;
* reference to the service specification;
* identification of the service instance.
* service implementation and instantiation details:
* internal design decisions;
* configuration data;
* deployment information.
* release notes:
* feature list;
* bug list.

This section shall be replaced by a suitable description of the purpose. For example:

The purpose of this service instance description document is to provide a documentation of the implementation and instantiation of the <XYZ> service (see [2]), realized by using the <ABC> technology as described in [3], according to the guidelines given in [1]. It describes a well-defined baseline of the service implementation by clearly identifying the service implementation version.

The aim is to document the key aspects of the <XYZ> service instantiation. This includes:

* identification and summary of the service instance:
* reference to the service design description;
* reference to the service specification;
* identification of the service instance.
* service implementation and instantiation details:
* internal design decisions;
* configuration data;
* deployment information.

• release notes:

* feature list:
* bug list.
  1. Intended Readership

This service instance description template is intended to be read by software architects, designers and implementers who shall produce service implementation and instance description.

This section shall describe the intended readers of the service instance description document. For example:

This service instance description document is intended to be read by service providers, system engineers and developers in charge of deploying and operating an instance of the <XYZ>service

1. SERVICE INSTANCE IDENTIFICATION
2. Service Instance Identification

|  |  |  |
| --- | --- | --- |
| **Name** | Service instance name. | |
| **ID** | Unique identity of service instance. | |
| **Version** | Version of the XYZ service instance. | |
| **Technology** | Indication of the technology used and supported by this instance  (e.g. REST or SOAP). | |
| **Service Specification ID** | Reference to the service specification. | |
| **Service Specification Version** | Reference to the service specification. | |
| **Service Design ID** | Reference to the service design. | |
| **Service Design Version** | Reference to the service design. | |
| **Description** | Short description of the XYZ service instance. The description shall contain an abstract of what a service implementation does and what the service consumer should know about how the service implementation works in this instance. | |
| **Keywords** | Keywords that can be used to find the service instance in the service registry. | |
| **Supplier** | Identification of organisation supplying this service implementation/instance. | |
| **Status** | | Status of the service implementation/instance in the engineering lifecycle – either ‘Provisional’, ’Released’, ‘Deprecated’ or ‘Deleted’.  ‘Provisional’: the service instance is (partly) available, but not yet officially released.  ‘Released’: the full-service instance is ready.  ‘Deprecated’: service instance is announced to become invalid in near future.  ‘Deleted’: service instance is not valid any more. |

1. SERVICE IMPLEMENTATION AND INSTANTIATION DETAILS

This section describes any information that appears useful for the understanding of the service implementation in general and of the actual service instance in particular. This may include internal design decisions, required configuration data, deployment pre-requisites, etc.

The template does not provide further details for the structure of this section. The actual structure is left to the author’s choice.

1. RELEASE NOTES

This section describes the release notes of the service instance. It shall contain at least the following set of information:

* release identification and date;
* feature list;
* added features;
* changed features;
* removed features;
* bug list;
* known open bugs;
* resolved bugs.

The template does not provide further details for the structure of this section. The actual structure is left to the author’s choice.

1. DEFINITIONS

The definitions of terms used in this IALA 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 shall be considered as the authoritative source of definitions used in IALA documents.

* 1. Terminology

Persons producing the Technical Service are invited to add definitions to the following list as appropriate.

1. Definition of terminology

| Term | Definition |
| --- | --- |
| **External Data Model** | Describes the semantics of the ‘maritime world’ (or a significant part thereof) by defining data structures and their relations. This could be at logical level (e.g. in UML) or at physical level (e.g. in XSD schema definitions), as for example standard data models, or S-100 based data produce specifications. |
| **Message Exchange Pattern** | Describes the principles two different parts of a message passing system (in our case: the service provider and the service consumer) interact and communicate with each other. Examples:  In the Request/Response MEP, the service consumer sends a request to the service provider to obtain certain information; the service provider provides the requested information in a dedicated response.  In the Publish/Subscribe MEP, the service consumer establishes a subscription with the service provider to obtain certain information; the service provider publishes information (either in regular intervals or upon change) to all subscribed service consumers. |
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1. ACRONYMS

Persons producing the Technical Service are invited to provide a list of acronyms as appropriate.

|  |  |
| --- | --- |
| **ACRONYM** | Meaning |
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|  |  |
|  |  |

1. REFERENCES

*This section shall include all references used in the service instance description. Specifically, the service specification document as well as the applicable service design description shall be listed.*

1. IALA Guideline 1128 on Specification of e-Navigation Technical Services
2. *ABC Service Specification* *xx.yy*  *for the ABC service*
3. *XYZ Service Design* *xx.yy*  *Description for the XYZ service*