Template for Functional Specification

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Date	06-12-2006
Current Version	1.2

Document Change Log

As SA3-WI15 Document			
Version number	**Date**	**Description of change**	**People**
1.0	05-12-06	First draft issued	Szymon Trocha
1.1	06-12-06	Reflected changes from Loukik's comments. Structure changed to add success and failure factors.	Szymon Trocha
1.2	06-12-06	Moved functionality block from heading 2 to heading 1 – only to make it simple.	Loukik

Table of Contents

1. Introduction

Functional specification tells users how a particular service works. It details what the application will do, what to expect and how a user can interact with it. Functional Specification lives together with Interface Specification which define the various interfaces available on a perfSONAR services.

This document provides a template for preparation of Functional Specification. It describes obligatory parts and provides a template for a description of Functional Specification, which must be filled by a service developer.

2. Naming convention to be followed for your documents

`service-type`	= Possible values are: MA, MP, LS, AA, ToS
`service-version`	=
`namespace-prefix`	= Namespace prefix associated with namespace name
`namespace-URI`	= URI reference identifying the namespace name

3. Explanation of Template for Functional Specification

This section describes how to fill the Functional Specification. It specifies which information should be provided and in what format.

3.1. General information

Service Name

You MUST specify your service name here.

You MUST use the following Naming convention:

```
<unique_service_name>_Type_<service_type>-
                        <service_version>
```

Example: `RRD-Type_MA_1.1`

Service Type

You MUST specify type of your service here.

Version/release

> You MUST specify service version number or release number.

Service Description

> You MUST write some description of your service here.

Contact person (s)

> You MAY specify a contact person(s) for this service so that other users can contact in case of questions.

Contact Information

> You MUST specify some contact (preferably e-mail address) either with the above contact person or with your organisation.

3.2. Introduction

You MUST describe here the general functionality of the service. It should briefly describe its functions and explain how it works with other services (if appropriate).

3.3. Functionality specifications

This section lists the functionalities. Under this section you MUST provide information relevant to each function. In case the service has more than one functionality, this section must be repeated as many times as necessary.

Functionality- `<functionality-name>`

This part describes one specific service functionality.

Description

> You MUST provide here a full description of the function

Success factors

> You MUST provide here descriptions of factors for which you expect the service will work properly.

Failure factors

> You must provide here descriptions of factors for which you expect the service to fail.

Interface specification

> Here, you MUST provide a reference to interface specifications described in Interface Specification document. You should link the function with the

request and response messages by providing unique request name or message id.

Other notes
This part MAY contain any other information about this functionality that may be of help to the user.

3.4. Other Information

This part MAY contain any other information about this service that may be of help to the user.

4. Template for Functionality Specification Document

This section presents the template for Functional Specification document. You MUST use it while writing a guide to your own Functional Specification.

Fields in brackets "<"/">" are placeholders for text written by developer. You MUST delete them while editing the template. For naming convention see section 2.

NOTE: Please make sure that all the documents that you write have a 'Title Page' and 'Document Change Log' as you have seen in this document

--- Template beings here ---

1. General information

Service Name: `<service-name>`
Service Type: `<service-type>`
Version/release: `<service-version>`
Service Description: `<service-description>`
Contact person (s): `<contact-person>`
Contact Information: `<contact-information>`

2. Introduction

`<Introduction>`

3. Functionality - <functionality-name>

Description
```
<functionality-description>
```

Success Factors
```
<success-factors>
```

Failure Factors
```
<failure-factors>
```

Interface specification
```
<interface-specification>
```

Other notes
```
<other-notes>
```

4. Other information
```
<other-information>
```

--- Template ends here ---