



# SPD Final

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## Abstract

This technical note provides the definition of the SWIM Profile Descriptor (SPD).

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1 of 12

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2 of 12

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3 of 12

## Table of Contents

TABLE OF CONTENTS .....	4
LIST OF TABLES.....	5
LIST OF FIGURES.....	5
EXECUTIVE SUMMARY .....	6
<b>1 INTRODUCTION.....</b>	<b>7</b>
1.1 PURPOSE OF THE DOCUMENT.....	7
1.2 INTENDED READERSHIP.....	7
1.3 INPUTS FROM OTHER PROJECTS.....	7
1.4 GLOSSARY OF TERMS .....	7
1.5 ACRONYMS AND TERMINOLOGY .....	7
<b>2 GUIDELINES.....</b>	<b>9</b>
2.1 SWIM PROFILE INSTANTIATION.....	9
2.1.1 <i>SPI Constituent Elements</i> .....	9
<b>3 REFERENCES.....</b>	<b>11</b>

## List of tables

Table 1	Acronyms and Terminology .....	8
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## List of figures

No table of figures entries found.

## Executive summary

This document describes the SWIM Profile Descriptor, which is a mandated template to adhere to for the creation a SWIM Profile Instantiation.



# 1 Introduction

## 1.1 Purpose of the document

This document describes the SWIM Profile Descriptor, which is a mandated template to adhere to for the creation a SWIM Profile Instantiation.

The SWIM Profile Descriptor Final is applicable to P14.01.03 and P14.01.04 deliverables of the final Iteration.

## 1.2 Intended readership

This document is intended to be reviewed and approved by WP B, 8, 9, 14 and the SWIM Architect Group (SACG). More specifically this document shall be of interest for the following projects:

- P14.1.3: as it is a deliverable for task 36.
- P14.1.4, P14.2.3 and P14.2.9: as it is an input to the system design work.
- P8.3.X, PB4.3: in order to coordinate the good adequation between services and allocated profiles. Also to define a common non-functional requirements list and taxonomy.
- P10.2.5: in order to learn about the SWIM-TI Blue profile.
- P13.2.2, in order to learn about the SWIM-TI Yellow profile and prepare the design of new operational scenario for the AIM Workflow.
- P14.4 in order to provide ATM prototyping projects part of System WPs, with information about the SWIM prototypes they have to integrate.
- P9.19 in order to learn about the SWIM-TI Purple profile.

Additionally this document together with references [1] and [2] shall be made available to manufacturers making technical products that would need to conform to a SWIM Profile.

## 1.3 Inputs from other projects

P14.1.4-D43 SWIM-TI Technical Specification, v00.01.00

INT14.01.04-Requirements Guidelines, Edition v00.00.05

## 1.4 Glossary of terms

N/A

## 1.5 Acronyms and Terminology

Term	Definition
AIM	Aeronautical Information Management
ATM	Air Traffic Management
ATN	Aeronautical Telecommunication Network
EN	Enabler
FB	Functional Block

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7 of 12

Term	Definition
<b>G/G</b>	Ground/Ground
<b>MEP</b>	Message Exchange Pattern
<b>NAF</b>	NATO Architecture Framework
<b>SESAR</b>	Single European Sky ATM Research Programme
<b>SESAR Programme</b>	The programme which defines the Research and Development activities and Projects for the SJU.
<b>SJU</b>	SESAR Joint Undertaking (Agency of the European Commission)
<b>SPD</b>	SWIM Profile Descriptor
<b>SPI</b>	SWIM Profile Instantiation
<b>SWIM</b>	System Wide Information Management
<b>SWIM-TI</b>	SWIM Technical Infrastructure
<b>TAD</b>	Technical Architecture Description
<b>TS</b>	Technical Specification
<b>WP</b>	Work Package

**Table 1      Acronyms and Terminology**



## 2 Guidelines

### 2.1 SWIM Profile Instantiation

#### 2.1.1 SPI Constituent Elements

##### 2.1.1.1 Source Specifications

In this version of the SPD, the sources of specifications for the SPI have been established as follows:

- For each SWIM Profile, there is a corresponding Profile TS that acts as root reference source.

All requirements of the root reference source are constituent elements of the SPI.

##### 2.1.1.2 Definitions

In this version of the SPD, the sources of definitions are:

- The TS
- A document referenced by the TS

The definitions in the TS and the definitions in the documents referenced by the TS are constituent elements of the SPI. Example:

There are requirements that reference specific MEPs. These MEPs are not defined in the TS itself but are authoritatively defined in the TAD. By referencing a definition of a MEP in the TAD that definition also becomes part of the SPI.

##### 2.1.1.3 SPI Views

###### 2.1.1.3.1 Axes

SPI Views structure and provide views on the source specifications along multiple axes:

- Stakeholder interest
- Allocation to Profile Parts
- Domain of interest
- Stakeholder point of view
- Role
- Self-standing set
- Conformance
- High Level
- Testability

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Each of the axes is represented by an attribute that is part of each requirement.

The interpretation and the possible values of these attributes are described in detail in the 14.01.04 Requirement Guidelines.

### 2.1.1.3.2 Presentation

#### 2.1.1.3.2.1 Generic

The SPI Views will be provided by an Excel spreadsheet that contains a copy of all applicable requirements from the source specifications as defined in 2.1.1.1.

The Excel spreadsheet will allow the user of the spreadsheet to set filtering criteria for each of the axes above based on the corresponding attributes and their possible values.

Besides the possible values as defined for each of the attributes, there will be an additional value “No filter”, which reflects that this particular attribute should be not be used to filter.

For a particular setting of the filtering criteria, the Excel spreadsheet will list all applicable requirements and no more.

An applicable requirement is one that has for at least one value in each attribute in the filter criteria, a matching value for the same attribute.

The setting of filtering criteria shall allow the selection of multiple values per attributes. Each value acts as an OR within the scope of a single attribute.

For a requirement to be selected, the outcome of the filter on each of the attributes has to be true.

By default, any combination of any of the filtering criteria shall be supported.

The Excel spreadsheet, including data and macro, is a constituent element of the SPI

### 3 References

- [1] P14.1.4-D44-001, SWIM-TI Technical Specifications Catalogue, v00.01.00
- [2] P14.1.3-D30, SWIM Architectural Definition Final, v00.01.00



**-END OF DOCUMENT-**

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12 of 12