

SWIM Information Definition Handbook

Role of the handbook

The [Specification for SWIM Information Definition](#) sets out a number of requirements to be met by an information definition. It provides some basic examples to illustrate the requirements. However, the specification does not give exhaustive details on how to satisfy the requirements.

This handbook gives guidance to help information definition authors and AIRM conformance report authors to satisfy the requirements.

The guidance contained in the handbook promotes the creation of better information definitions. It will lead to greater harmonisation in the implementation of the specification.

Target audiences

- Information definition authors
- AIRM conformance report authors
- AIRM conformance report auditors and readers

Content structure

The handbook is organised into key topics.

Introduction to the specification. This introduces the purpose and context for the specification. It introduces semantic correspondence and semantic interoperability. It gives an overview of the requirements in the specification.

Guidance on the general requirements. This provides support in order to satisfy the general requirements contained in the specification.

Guidance on semantic correspondence. This provides support in order to satisfy the semantic correspondence requirements contained in the specification.

Resources. This provides examples, recommendations on how to satisfy the requirements in various formats and a verification checklist.

Full table of contents

SWIM Supporting Material

This site contains draft content for the **next version** of the supporting material for the EUROCONTROL SWIM specifications. The content is mature but is still subject to review, comment and change by the [SWIM Community of Interest](#).

It is an evolution of the agreed and published content found on the [SWIM Reference](#) website.

Quick Links

[Specification for SWIM Information Definition](#)

[ATM Information Reference Model \(AIRM\)](#)



The SWIM Information Definition Handbook is advisory in nature. It is created and maintained by a community of interest and evolves over time as the community identifies new examples and good practices. To become a member of the community, please send an email to swim@eurocontrol.int.



The handbook includes the requirements found in the Specification for SWIM Information Definition. However, it does not replace the specification. Users of the handbook are advised to download the specification using the quick links above.



The specification has a dependency on the ATM Information Reference Model (AIRM). This can be downloaded, or viewed online using the quick links above.

- Introduction to the information definition specification
- Guidance on the general requirements
 - SWIM-INFO-001 Need for information definitions
 - SWIM-INFO-002 Information definition language
 - SWIM-INFO-003 Information definition identification
 - SWIM-INFO-004 Information definition responsible party
 - SWIM-INFO-005 Information definition scope
 - SWIM-INFO-006 Information definition namespace
 - SWIM-INFO-007 Information definition concepts
 - SWIM-INFO-008 Unique identifiers for concepts
 - SWIM-INFO-009 Preservation of meaning
 - SWIM-INFO-010 Principles for definitions for concepts
 - SWIM-INFO-011 Semantics of metadata
 - SWIM-INFO-012 Use of data types
- Guidance on semantic correspondence
 - SWIM-INFO-013 Establish semantic correspondence
 - SWIM-INFO-014 Forms of semantic correspondence
 - SWIM-INFO-015 Out-of-scope or no correspondence
 - SWIM-INFO-016 Mapping of information concepts
 - SWIM-INFO-017 Mapping of data concepts
 - SWIM-INFO-018 Additional traces to clarify the mapping
 - SWIM-INFO-019 Use of the AIRM's unique identifiers in traces
- Resources for information definitions
 - Example information definition
 - Further guidance on fulfilling the requirements
 - Recording metadata required by the specification
 - Detailing the concepts using XSD
 - Understanding and recording mappings
 - Verification checklist
 - Using the AIRM
- FAQ - Semantic correspondence