SWIM-SERV-001 Description coverage

Requirement

Title	Service description coverage
Identifier	SWIM-SERV-001
Requirement	A service description **shall** describe a single service.
Rationale	The readability of any service description is improved by keeping it focussed on one service.
Verification	Completeness: Not Applicable. Consistency: Not Applicable. Correctness: Verify that one and only one service is described.
Examples/Notes	
Level of Implementation	Mandatory

Guidance

No guidance is provided for the general case.

Case of a composed service

Case where the described service is composed of other services, consists of underlying services, such as for an orchestration.

The objective of the service description is to describe the composed service as a single service, in order for the service consumer to make good use of that composed service.

Information on the underlying services may be added, but is not required by the specification.

It is good SOA practice that a service appears as a black-box to its consumers.

Guidance for JSON service description

> ⓘ **tentative JSON Guidance**
>
> [Guidance for JSON service descriptions](#) integrated within the [SWIM Service Description Handbook](#).

Schema

The guidance concerns JSON Schema v0.0.3 (see [Schema releases](#)).

```
"id": "http://www.eurocontrol.int/schemas/servicedescription/0.0.3",
"type": "object",
"additionalProperties": false,
"required": ["informationService"],
"properties":
{
        "informationService":
```

```
                    {
                            "description" : "the description of an information service [SWIM-SERV-001]",
                            "$ref" :   "#/definitions/InformationService"
                    }
        },


                "InformationService" :
                {
                            "description" : "A type of service that provides an ATM information sharing
capability.",
                            "type": "object",
                            "additionalProperties": false,
                            "required": ["descriptionInformation", "name", "version", "serviceAbstract",
"serviceProvision", "serviceCategorisation", "serviceGeneralDescription",
"serviceInformationDescription", "serviceTechnicalDescription", "serviceDescriptionReferences",
"serviceInterface"],
                            "properties":
                            {
                                    "descriptionInformation":
                                    {
                                            "description" : "A container for Service Description metadata.",
                                            "$ref" : "#/definitions/DescriptionInformation",
                                            "SemanticCorrespondence" : "No Semantic Correspondence
established"
                                    },
                                    "name":
                                    {
                                            "description" : "A piece of identifying information that gives
stakeholders a way to reference or identify a service. [SWIM-SERV-006]",
                                            "type" : "string",
                                            "minLength":1
                                    },
                                    "version":
                                    {
                                            "description" : "The version of the information service. [SWIM-
SERV-006]",
                                            "type" : "string",
                                            "minLength":1
                                    },
                                    "serviceAbstract":
                                    {
                                            "description" : "A brief summary of the service offering. [SWIM-
SERV-007]",
                                            "type" : "string",
                                            "minLength":1
                                    },
                                    "serviceProvision":
                                    {
                                            "description" : "A container for information about who provides
the service, when and how it is supported.",
                                            "$ref" : "#/definitions/ServiceProvision"
                                    },
                                    "serviceCategorisation":
                                    {
                                            "description" : "A taxonomy used to classify a service by the
type of service provided or by some other technological or architectural solution. [SWIM-SERV-009]",
                                            "$ref" : "#/definitions/ServiceCategorisation"
                                    },
                                    "serviceGeneralDescription":
                                    {
                                            "description" : "A container for information about what the
service provides, its purpose and under which conditions and quality levels it is provided.",
                                            "$ref" : "#/definitions/ServiceGeneralDescription"
                                    },
                                    "serviceInformationDescription":
                                    {
                                            "description" : "A container for the description of the
information exchanged by the information service.",
                                            "$ref" : "#/definitions/ServiceInformationDescription"
                                    },
```

```
                                                "serviceTechnicalDescription":
                                                {
                                                        "description" : "A container for information about the security
mechanisms, technical constraints and monitoring of the information service.",
                                                        "$ref" : "#/definitions/ServiceTechnicalDescription"
                                                },
                                                "serviceInterface":
                                                {
                                                        "description" : "The means by which the underlying capabilities
of a service are accessed.",
                                                        "type" : "array",
                                                        "items" : { "$ref":"#/definitions/Interface" },
                                                        "minItems": 1
                                                },
                                                "serviceDescriptionReferences":
                                                {
                                                        "description" : "A container for references to documents
describing specific aspects of the service instance.",
                                                        "$ref" : "#/definitions/ServiceDescriptionReferences"
                                                }
                                        }
                        },
```

Rules expressed for the cases as defined in Registry URD.

case	rules
COMPLIANT	Mandatory
CANDIDATE	same
DEFINITION	same

Guidance

At highest level, create an object with the single attribute informationService.

Rationale: The readability of a service description is improved by keeping it focused on one service.

Example

```
{
    "informationService": {

        }
}
```

A complete JSON example is available in page JSON example - Donlon TOBT Setting service description.