

SD Information Model Specification

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1 Scope

The scope of the present document is to describe the SD Information Model Specification.

2 Terms, Definitions and Abbreviations

For the purposes of the present document, the following abbreviations apply

Abbreviation	Definition
SO	Service Orchestrator
SD	Service Descriptor
RD	Resource Descriptor
VF	Virtual Function

3 SD Information Model

The Service Descriptor (SD) is a deployment template which consists of information used by the

Service Orchestrator (SO) for life cycle management of a service.

A service is a composition of resources. As illustrated in Figure 3-1, the description of a service as used by the Service Orchestration (SO) to deploy a service instance includes or references the descriptors of its constituent objects:

- One or more resources;

A resource could be a VL, VF, WAN Descriptor etc.

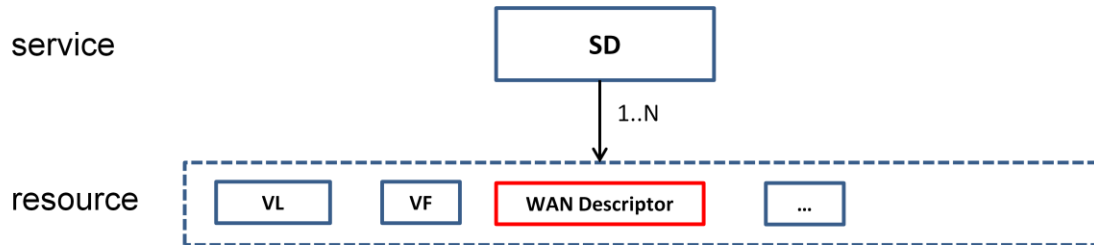


Figure 3-1

Note: WAN Descriptor to be discussed.

4 Functional Requirements

4.1 SD

Table 4-1 specifies requirements to the templates for SD instances.

Numbering	Requirements Description
NST_SD001	The SD shall reference the resources applicable to its constituent services.

Table 4-1

5 Information Model Definition

5.1 Service Descriptor

The SD information element is a template whose instances are used by the SO for the lifecycle management of Services.

Attribute	Qualifier	Cardinality	Content	Description
id	M	1	Identifier	Identifier of this SD information element. It Globally uniquely identifies an instance of the SD.

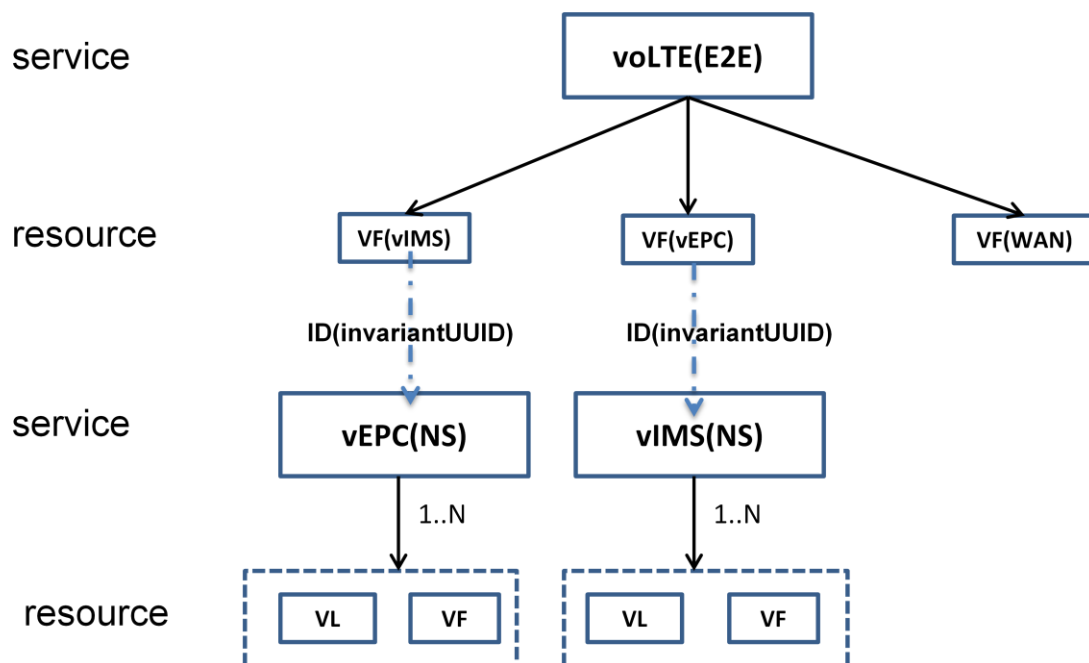
designer	M	1	String	Designer of this SD.
name	M	1	String	The name of the SD.
version	M	1	String	The version of the SD.
description	M	1	String	The description of the SD.
vendor	M	1	String	The vendor of the SD.
type	M	1	String	Value:”Service”
category	M	1	String	The category. Add new enum: ‘E2E’,’NS’.
serviceType	M	1	String	The ServiceType of the SD(new for R1)..
serviceRole	M	1	String	The ServiceRole of the SD(new for R1)..
resource	M	1...N	RD. it could be VF/WAN Descriptor etc.	The constituent Resources of the SD.

5.1.1 vCPE

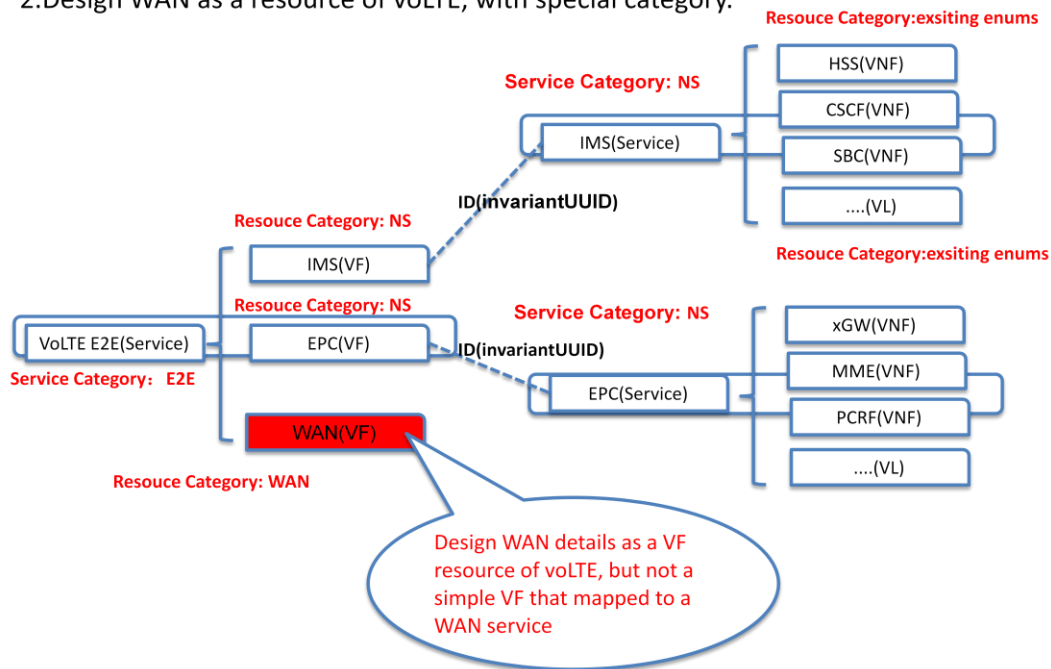
Attribute	Qualifier	Cardinality	Content	Description
id	M	1	Identifier	Identifier of this SD information element. It Globally uniquely identifies an instance of the SD.
designer	M	1	String	Designer of this SD.
name	M	1	String	The name of the SD.
version	M	1	String	The version of the SD.
description	M	1	String	The description of the SD.
vendor	M	1	String	The vendor of the SD.

type	M	1	String	Value:”Service”
category	M	1	String	The category. Add ‘E2E’,’NS’.For vCPE usecase, it is not E2E or NS , it is other values
serviceType	M	1	String	The ServiceType of the SD(new for R1)..
serviceRole	M	1	String	The ServiceRole of the SD(new for R1)..
resource	M	1..N	RD. it could be VF/VL etc.	The constituent Resources of the SD.

5.1.2 voLTE



1. Add new enums for category field of Service: E2E, NS
2. Design WAN as a resource of volTE, with special category.



1. volte E2E Service

Attribute	Qualifier	Cardinality	Content	Description
id	M	1	Identifier	Identifier of this SD information element. It Globally uniquely identifies an instance of the SD.
designer	M	1	String	Designer of this SD.
name	M	1	String	The name of the SD.
version	M	1	String	The version of the SD.
description	M	1	String	The description of the SD.
vendor	M	1	String	The vendor of the SD.
type	M	1	String	Value: "Service"
category	M	1	String	The category. Add 'E2E', 'NS'. For volte, it is E2E
serviceType	M	1	String	The ServiceType of the SD (new for R1).
serviceRole	M	1	String	The ServiceRole of the

				SD(new for R1).
resource	M	1...N	RD. it could be VF/WAN Descriptor etc.	The constituent Resources of the SD.

2. vIMS/vEPC Service

Attribute	Qualifier	Cardinality	Content	Description
id	M	1	Identifier	Identifier of this SD information element. It Globally uniquely identifies an instance of the SD.
designer	M	1	String	Designer of this SD.
name	M	1	String	The name of the SD.
version	M	1	String	The version of the SD.
description	M	1	String	The description of the SD.
vendor	M	1	String	The vendor of the SD.
type	M	1	String	Value:”Service”
category	M	1	String	The category. Add ‘E2E’,’NS’.For vIMS/vEPC, it is NS
serviceType	M	1	String	The ServiceType of the SD(new for R1)..
serviceRole	M	1	String	The ServiceRole of the SD(new for R1)..
resource	M	1...N	RD. it could be VF/VLEtc.	The constituent Resources of the SD.

5.2 Resource Descriptor

The Resource Descriptor information element is a template that describes resource. The resource could be a VL, VF, NSD, WAN Descriptor etc.

Attribute	Qualifier	Cardinality	Content	Description
name	M	1	Identifier	Identifier the name of the resource.
type	M	1	String	The resource type. Enum: VL, VF, NSD, WAN Descriptor, etc.
id	M	1	String	Specifies the resource id.
version	M	1	String	The resource version.
description	M	1	String	Specifies the resource description.
category	M	1	String	The category of resource. New Enum : NS, WAN. For volte VFs, it should be NS or WAN, for vCPE VFs, it should be other values.
subcategory	M	1	String	The subcategory of resource.
depends	O	1	String	Specifies the resource depends. It should be a list of resource name.
vnfminfo	O	1	String	Vnfminfo for VF resource.
resource	M	1...N	RD. it could be VL/VFC etc.	The constituent Resources of the resource.

Note: For volte E2E Service, SD id is an input of VF resource.