NFV SpecFest – Specification example for the hands-on activity

Scope: This document contains an example of specification created from an extract of ETSI GS NFV-SOL 002 to be used as reference specification in the hands-on activity of the NFV SpecFest at NFV#19 meeting.

Please note: Numbering of sections reflects the structure of the original specification. The text has been modified and sub-parts of the original content were removed.

Part 1: Resource path and operations

5.4.2 Resource: VNF instances

5.4.2.1 Description

This resource represents VNF instances.

5.4.2.2 Resource definition

The resource URI is:

/vnf_instances

5.4.2.3 Resource methods

5.4.2.3.1 POST

The POST method creates a new VNF instance resource.

This method shall follow the provisions specified in the table 5.4.2.3.1-2 for URI query parameters, request and response data structures, and response codes.

Table 5.4.2.3.1-2: Details of the POST request/response on this resource

	Data type	Cardinality	Response Codes	Description
Response body	VnfInstance	1	201 Created	A VNF Instance identifier was created successfully.
	ProblemDetails	1	400 Bad Request	An error was present in the client request. The ProblemDetails objects contains information regarding the error.

Part 2: Data types

4.3.5.3   Type: ProblemDetails

The definition of the general "ProblemDetails" data structure from IETF RFC 7807 [17] is reproduced in table 4.3.5.3-1.

Table 4.3.5.3-1: Definition of the ProblemDetails data type

Attribute name	Data type	Cardinality	Description
status	Integer	1	The HTTP status code for this occurrence of the problem.
detail	String	1	A human-readable explanation specific to this occurrence of the problem.
instance	URI	0..1	A URI reference that identifies the specific occurrence of the problem.

5.5.2   Resource and notification data types

[…]

5.5.2.2   Type: VnfInstance

This type represents a VNF instance. It shall comply with the provisions defined in table 5.5.2.2-1.

Table 5.5.2.2-1: Definition of the VnfInstance data type

Attribute name	Data type	Cardinality	Description
Id	Identifier	1	Identifier of the VNF instance.
vnfInstanceName	String	0..1	Name of the VNF instance.
vnfdId	Identifier	1	Identifier of the VNFD on which the VNF instance is based.
vnfSoftwareVersion	Version	1	Software version of the VNF.