

Advanced: Resource paths and operations

5.4.2 Resource: VNF instances

5.4.2.1 Description

This resource represents VNF instances. The client can use this resource to create individual VNF instance resources, and to query VNF instances.

5.4.2.2 Resource definition

The resource URI is:

/vnflcm/v1/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

Request body	Data type	Cardinality	Description	
	CreateVnfRequest	1	The VNF creation parameters, as defined in clause 5.5.2.3	
Response body	Data type	Cardinality	Response Codes	Description
	VnfInstance	1	201 Created	A VNF Instance identifier was created successfully. The response body shall contain a representation of the created VNF instance, as defined in clause 5.5.2.2. The HTTP response shall include a "Location" HTTP header that contains the resource URI of the created VNF instance.
	ProblemDetails	1	400 Bad Request	An error was present in the client request. The ProblemDetails objects contains information regarding the error.
	ProblemDetails	1	500 Internal error	The server encountered an unexpected condition which prevented it from fulfilling the request.

Advanced: 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. It is possible that particular APIs in the present document, or particular implementations, define extensions to define additional attributes that provide more information about the error.

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.
type	URI	0..1	A URI reference that identifies the problem type.
title	String	0..1	A short, human-readable summary of the problem type.

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. This attribute can be modified with the PATCH method.
vnfId	Identifier	1	Identifier of the VNFD on which the VNF instance is based.
vnfSoftwareVersion	Version	1	Software version of the VNF.
vnfInstanceDescription	String	0..1	Human-readable description of the VNF instance. This attribute can be modified with the PATCH method.
vnfProvider	String	1	Provider of the VNF and the VNFD.
vnfProductName	String	1	Name to identify the VNF Product.

5.5.2.3 Type: CreateVnfRequest

This type represents a request parameters for the “Create VNF identifier” operation. It shall comply with the provisions defined in table 5.5.2.3-1.

Table 5.5.2.3-1: Definition of the CreateVnfRequest data type

Attribute name	Data type	Cardinality	Description
vnfId	Identifier	1	Identifier that identifies the VNFD which defines the VNF instance to be created.
vnfInstanceName	String	0..1	Human-readable name of the VNF instance to be created.
vnfInstanceDescription	String	0..1	Human-readable description of the VNF instance to be created.