# Annex F: Word format presentation of the test suite for the Or-Vnfm Reference Point

## F.1 Overview

The present annex contains a tabular representation of the high-level test descriptions developed as part of ETSI GS NFV TST 010.

In order to maintain compatibility with previous versions of the deliverable, the numbering of clauses and subclauses is kept as defined in ETSI GS NFV-TST 010. Clauses F.2 to F.6 are therefore to be considered Void.

## F.7 Tabular test descriptions

### 7.3.1 VNF Lifecycle Management Interface

#### 7.3.1.1 VNFInstances

##### 7.3.1.1.1 POST Create a new vnfInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.1.1 |
| **Test title** | POST Create a new vnfInstance |
| **Test objective** | The objective is to create a new VNF instance resource |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.2.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** | VNF instance created |
| **Test Case** | |
| POST Create a new vnfInstance  Check HTTP Response Status Code Is 201 Check HTTP Response Body Json Schema Is vnfInstance | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFInstances.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.1.2 GET information about multiple VNF instances

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.1.2 |
| **Test title** | GET information about multiple VNF instances |
| **Test objective** | The objective is to query information about multiple VNF instances |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| GET multiple vnfInstances  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfInstances | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFInstances.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.1.3 GET information about multiple VNF instances Bad Request Invalid attribute-based filtering parameters

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.1.3 |
| **Test title** | GET information about multiple VNF instances Bad Request Invalid attribute-based filtering parameters |
| **Test objective** | The objective is to query information about multiple VNF instances with Invalid attribute-based filtering parameters |
| **Pre-conditions** | A VNF is instantiated, a bad filter selector (filter selectors are listed in Table 5.4.2.3.2-1 - ETSI GS NFV-SOL 003 [1] v2.4.1). |
| **Reference** | clause 5.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| GET multiple vnfInstances with bad attribute  Check HTTP Response Status Code Is 400 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFInstances.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.1.4 GET information about multiple VNF instances Bad Request Invalid attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.1.4 |
| **Test title** | GET information about multiple VNF instances Bad Request Invalid attribute selector |
| **Test objective** | The objective is to query information about multiple VNF instances with Invalid attribute selector |
| **Pre-conditions** | A VNF is instantiated, a bad attribute selector (attribute selectors are listed in Table 5.4.2.3.2-1 - ETSI GS NFV-SOL 003 [1] v2.4.1). |
| **Reference** | clause 5.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| GET multiple vnfInstances with bad filter  Check HTTP Response Status Code Is 400 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFInstances.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.1.5 GET information about multiple VNF instances with "all\_fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.1.5 |
| **Test title** | GET information about multiple VNF instances with "all\_fields" attribute selector |
| **Test objective** | The objective is to query information about multiple VNF instances |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| GET multiple vnfInstances with all\_fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfInstances | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFInstances.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.1.6 GET information about multiple VNF instances with "exclude\_default" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.1.6 |
| **Test title** | GET information about multiple VNF instances with "exclude\_default" attribute selector |
| **Test objective** | The objective is to query information about multiple VNF instances |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| GET multiple vnfInstances with exclude\_default attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfInstances | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFInstances.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.1.7 GET information about multiple VNF instances with "fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.1.7 |
| **Test title** | GET information about multiple VNF instances with "fields" attribute selector |
| **Test objective** | The objective is to query information about multiple VNF instances |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| GET multiple vnfInstances with fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfInstances | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFInstances.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.1.7 GET information about multiple VNF instances with "exclude\_fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.1.7 |
| **Test title** | GET information about multiple VNF instances with "exclude\_fields" attribute selector |
| **Test objective** | The objective is to query information about multiple VNF instances |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| GET multiple vnfInstances with exclude\_fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfInstances | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFInstances.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.1.5 PUT multiples VNFInstances - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.1.5 |
| **Test title** | PUT multiples VNFInstances - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.2.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| PUT multiple vnfInstances  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFInstances.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.1.6 PATCH multiples VNFInstances - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.1.6 |
| **Test title** | PATCH multiples VNFInstances - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.2.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| PATCH multiple vnfInstances  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFInstances.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.1.7 DELETE VNFInstances - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.1.7 |
| **Test title** | DELETE multiples VNFInstances - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.2.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| DELETE multiple vnfInstances  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFInstances.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.2 IndividualVNFInstance

##### 7.3.1.2.1 Post Individual VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.2.1 |
| **Test title** | Post Individual VNFInstance - Method not implemented |
| **Test objective** | The objective is to test that POST method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.3.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| POST individual vnfInstance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFInstance.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.2.2 Get Information about an individual VNF Instance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.2.2 |
| **Test title** | Get Information about an individual VNF Instance |
| **Test objective** | The objective is to create a new VNF instance resource |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.3.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| GET individual vnfInstance  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfInstance SET etag | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFInstance.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.2.3 PUT Individual VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.2.3 |
| **Test title** | PUT Individual VNFInstance - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.3.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| PUT individual vnfInstance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFInstance.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.2.4 PATCH Individual VNFInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.2.4 |
| **Test title** | PATCH Individual VNFInstance |
| **Test objective** | This method modifies an individual VNF instance resource |
| **Pre-conditions** | an existing VNF instance resource |
| **Reference** | clause 5.4.3.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** | VNFInstance modified |
| **Test Case** | |
| PATCH individual vnfInstance  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id existence | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFInstance.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.2.5 PATCH Individual VNFInstance Precondition failed

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.2.5 |
| **Test title** | PATCH Individual VNFInstance Precondition failed |
| **Test objective** | The objective is to create a new VNF instance resource |
| **Pre-conditions** | ETag mismatch |
| **Reference** | clause 5.4.3.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** | VNFInstance not modified |
| **Test Case** | |
| PATCH individual vnfInstance  Check HTTP Response Status Code Is 412 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFInstance.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.2.6 PATCH Individual VNFInstance Conflict

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.2.6 |
| **Test title** | PATCH Individual VNFInstance Conflict |
| **Test objective** | The objective is to test the conflict while modifying a VNF instance resource |
| **Pre-conditions** | another LCM operation is ongoing |
| **Reference** | clause 5.4.3.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** | VNFInstance not modified |
| **Test Case** | |
| PATCH individual vnfInstance  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFInstance.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.2.7 DELETE Individual VNFInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.2.7 |
| **Test title** | DELETE Individual VNFInstance |
| **Test objective** | The objective is to delete a VNF instance |
| **Pre-conditions** | the VNF instance resource is existing |
| **Reference** | clause 5.4.3.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** | VNFInstance deleted |
| **Test Case** | |
| DELETE individual vnfInstance  Check HTTP Response Status Code Is 204 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFInstance.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.2.8 DELETE Individual VNFInstance Conflict

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.2.8 |
| **Test title** | DELETE Individual VNFInstance Conflict |
| **Test objective** | The objective is to verify that the deletion cannot be executed currently, due to a conflict with the state of the VNF instance resource. |
| **Pre-conditions** | VNF instance resource is in INSTANTIATED state |
| **Reference** | clause 5.4.3.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| DELETE individual vnfInstance  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFInstance.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.3 InstantiateVNFTask

##### 7.3.1.3.1 Instantiate a vnfInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.3.1 |
| **Test title** | Post Instantiate Individual VNFInstance |
| **Test objective** | The objective is to instantiate a VNF instance |
| **Pre-conditions** | VNF instance resource is in NOT INSTANTIATED state |
| **Reference** | clause 5.4.4.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| POST instantiate individual vnfInstance  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id existence | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/InstantiateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.3.2 Instantiate a vnfInstance Conflict

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.3.2 |
| **Test title** | Post Instantiate Individual VNFInstance |
| **Test objective** | The objective is to verify that the instantiation of the vnf cannot be executed currently, due to a conflict with the state of the VNF instance resource. |
| **Pre-conditions** | VNF instance resource is in INSTANTIATED state |
| **Reference** | clause 5.4.4.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| POST instantiate individual vnfInstance conflict  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/InstantiateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.3.3 GET Instantiate VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.3.3 |
| **Test title** | GET Instantiate Individual VNFInstance - Method not implemented |
| **Test objective** | The objective is to test that GET method is not implemented |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| GET instantiate individual vnfInstance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/InstantiateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.3.4 PUT Instantiate VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.3.4 |
| **Test title** | PUT Instantiate Individual VNFInstance - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.4.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| PUT instantiate individual vnfInstance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/InstantiateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.3.5 PATCH Instantiate VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.3.5 |
| **Test title** | PATCH Instantiate Individual VNFInstance - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.4.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| PATCH instantiate individual vnfInstance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/InstantiateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.3.6 DELETE Instantiate VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.3.6 |
| **Test title** | DELETE Instantiate Individual VNFInstance - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.4.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| DELETE instantiate individual vnfInstance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/InstantiateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.4 ScaleVNFTask

##### 7.3.1.4.1 POST Scale a vnfInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.4.1 |
| **Test title** | POST Scale a vnfInstance |
| **Test objective** | The objective is to scale a VNF instance |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.5.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| POST Scale vnfInstance  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id existence | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.4.2 POST Scale a vnfInstance Conflict (Not-Instantiated)

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.4.2 |
| **Test title** | POST Scale a vnfInstance Conflict (Not-Instantiated) |
| **Test objective** | The objective is to verify that the scale operation cannot be executed |
| **Pre-conditions** | VNF instance resource is in NOT-INSTANTIATED state |
| **Reference** | clause 5.4.5.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| POST Scale vnfInstance  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.4.3 POST Scale a vnfInstance Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.4.3 |
| **Test title** | POST Scale a vnfInstance Not Found |
| **Test objective** | The objective is to verify that the operation cannot be executed currently, because the VNF instance resource is not found. |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.5.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| POST Scale vnfInstance  Check HTTP Response Status Code Is 404 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.4.4 GET Scale VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.4.4 |
| **Test title** | GET Scale VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| GET Scale vnfInstance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.4.5 PUT Scale VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.4.5 |
| **Test title** | PUT Scale VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.5.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| PUT Scale vnfInstance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.4.6 PATCH Scale VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.4.6 |
| **Test title** | PATCH Scale VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.5.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| PATCH Scale vnfInstance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.4.7 DELETE Scale VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.4.7 |
| **Test title** | DELETE Scale VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.5.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| DELETE Scale vnfInstance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.5 ScaleVNFToLevelTask

##### 7.3.1.5.1 POST Scale a vnfInstance to level

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.5.1 |
| **Test title** | POST Scale a vnfInstance to level |
| **Test objective** | The objective is to scale a VNF instance to a target level. |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.6.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| POST Scale vnfInstance to level  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id existence | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFToLevelTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.5.2 POST Scale a vnfInstance to level Conflict (Not-Instantiated)

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.5.2 |
| **Test title** | POST Scale a vnfInstance to level Conflict (Not-Instantiated) |
| **Test objective** | The objective is to verify that the scale operation cannot be executed because the resource is not instantiated |
| **Pre-conditions** | VNF instance resource is in NOT-INSTANTIATED state |
| **Reference** | clause 5.4.6.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| POST Scale vnfInstance to level  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFToLevelTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.5.3 Scale a vnfInstance Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.5.3 |
| **Test title** | Scale a vnfInstance Not Found |
| **Test objective** | The objective is to verify that the operation cannot be executed , because the VNF instance resource cannot be found. |
| **Pre-conditions** | VNF instance resource is in NOT-INSTANTIATED state |
| **Reference** | clause 5.4.6.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| POST Scale vnfInstance to level  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFToLevelTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.5.4 GET Scale to level VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.5.4 |
| **Test title** | GET Scale to level VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.6.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| GET Scale vnfInstance to level  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFToLevelTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.5.5 PUT Scale to level VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.5.5 |
| **Test title** | PUT Scale to level VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.6.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| PUT Scale vnfInstance to level  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFToLevelTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.5.6 PATCH Scale to level VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.5.6 |
| **Test title** | PATCH Scale to level VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.6.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| PATCH Scale vnfInstance to level  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFToLevelTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.5.7 DELETE Scale to level VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.5.7 |
| **Test title** | DELETE Scale to level VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.6.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| DELETE Scale vnfInstance to level  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFToLevelTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.6 ChangeVNFFlavourTask

##### 7.3.1.6.1 POST Change deployment flavour of a vnfInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.6.1 |
| **Test title** | POST Change deployment flavour of a vnfInstance |
| **Test objective** | The objective is to test that POST method trigger a change in VNF deployment flavour |
| **Pre-conditions** | VNF instance resource is not in NOT-INSTANTIATED state |
| **Reference** | clause 5.4.7.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | in response header Location shall not be null |
| **Test Case** | |
| POST Change VNF deployment flavour  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id existence | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeVNFFlavourTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.6.2 POST Change deployment flavour of a vnfInstance Conflict (Not-Instantiated)

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.6.2 |
| **Test title** | POST Change deployment flavour of a vnfInstance Conflict (Not-Instantiated) |
| **Test objective** | The objective is to test that POST method cannot trigger a change in VNF deployment flavour because of a conflict with the state of the VNF instance resource. (VNF instance resource is not in NOT-INSTANTIATED state) |
| **Pre-conditions** | VNF instance resource is in NOT-INSTANTIATED state |
| **Reference** | clause 5.4.7.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Change VNF deployment flavour  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeVNFFlavourTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.6.3 POST Change deployment flavour of a vnfInstance Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.6.3 |
| **Test title** | POST Change deployment flavour of a vnfInstance Not Found |
| **Test objective** | The objective is to test that POST method cannot trigger a change in VNF deployment flavour because the VNF instance resource is not found. |
| **Pre-conditions** | the VNF instance resource is not existing |
| **Reference** | clause 5.4.7.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Change VNF deployment flavour  Check HTTP Response Status Code Is 404 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeVNFFlavourTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.16.4 GET Change deployment flavour VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.16.4 |
| **Test title** | GET Change deployment flavour VNFInstance - Method not implemented |
| **Test objective** | The objective is to test that GET method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.7.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Change VNF deployment flavour  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeVNFFlavourTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.16.5 PUT Change deployment flavour VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.16.5 |
| **Test title** | PUT Change deployment flavour VNFInstance - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.7.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT Change VNF deployment flavour  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeVNFFlavourTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.16.6 PATCH Change deployment flavour VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.16.6 |
| **Test title** | PATCH Change deployment flavour VNFInstance - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.7.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH Change VNF deployment flavour  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeVNFFlavourTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.16.7 DELETE Change deployment flavour VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.16.7 |
| **Test title** | DELETE Change deployment flavour VNFInstance - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.7.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE Change VNF deployment flavour  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeVNFFlavourTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.7 TerminateVNFTask

##### 7.3.1.7.1 POST Terminate a vnfInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.7.1 |
| **Test title** | POST Terminate a vnfInstance |
| **Test objective** | The objective is to test that POST method terminate a VNF instance |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.8.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| POST Terminate VNF  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id existence | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/TerminateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.7.2 POST Terminate a vnfInstance Conflict (Not-Instantiated)

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.7.2 |
| **Test title** | POST Terminate a vnfInstance Conflict (Not-Instantiated) |
| **Test objective** | The objective is to test that the vnf Instance cannot be terminated |
| **Pre-conditions** | VNF instance resource is in NOT-INSTANTIATED state |
| **Reference** | clause 5.4.8.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| POST Terminate VNF  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/TerminateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.7.3 GET Terminate VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.7.3 |
| **Test title** | GET Terminate VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.8.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Terminate VNF  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/TerminateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.7.4 PUT Terminate VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.7.4 |
| **Test title** | PUT Terminate VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.8.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT Terminate VNF  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/TerminateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.7.5 PATCH Terminate VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.7.5 |
| **Test title** | PATCH Terminate VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.8.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH Terminate VNF  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/TerminateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.7.6 DELETE Terminate VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.7.6 |
| **Test title** | DELETE Terminate VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.8.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE Terminate VNF  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/TerminateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.8 HealVNFTask

##### 7.3.1.8.1 POST Heal a vnfInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.8.1 |
| **Test title** | POST Heal a vnfInstance |
| **Test objective** | The objective is to test that POST method heal a VNF instance |
| **Pre-conditions** | the VNF instance resource is not in NOT-INSTANTIATED state |
| **Reference** | clause 5.4.9.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| POST Heal VNF  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id existence | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/HealVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.8.2 POST Heal a vnfInstance Conflict (Not-Instantiated)

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.8.2 |
| **Test title** | POST Heal a vnfInstance Conflict (Not-Instantiated) |
| **Test objective** | The objective is to test that the operation cannot be executed currently, due to a conflict with the state of the VNF instance resource. |
| **Pre-conditions** | the VNF instance resource is in NOT-INSTANTIATED state |
| **Reference** | clause 5.4.9.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| POST Heal VNF  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/HealVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.8.3 POST Heal a vnfInstance Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.8.3 |
| **Test title** | POST Heal a vnfInstance Not Found |
| **Test objective** | The objective is to test that the operation cannot be executed because the VNF instance resource is not found. |
| **Pre-conditions** | the VNF instance resource is not existing |
| **Reference** | clause 5.4.9.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| POST Heal VNF  Check HTTP Response Status Code Is 404 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/HealVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.8.4 GET Heal VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.8.4 |
| **Test title** | GET Heal a vnfInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.9.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| GET Heal VNF  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/HealVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.8.5 PUT Heal VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.8.5 |
| **Test title** | PUT Heal a vnfInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.9.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| PUT Heal VNF  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/HealVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.8.6 PATCH Heal VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.8.6 |
| **Test title** | PATCH Heal a vnfInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.9.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| PATCH Heal VNF  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/HealVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.8.7 DELETE Heal VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.8.7 |
| **Test title** | DELETE Heal a vnfInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.9.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| DELETE Heal VNF  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/HealVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.9 OperateVNFTask

##### 7.3.1.9.1 POST Operate a vnfInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.9.1 |
| **Test title** | POST Operate a vnfInstance |
| **Test objective** | The objective is to test that POST method operate a VNF instance |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.10.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| POST Operate VNF  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id existence | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/OperateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.9.2 POST Operate a vnfInstance Conflict (Not-Instantiated)

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.9.2 |
| **Test title** | POST Operate a vnfInstance Conflict (Not-Instantiated) |
| **Test objective** | The objective is to test that the operation cannot be executed currently, due to a conflict with the state of the VNF instance resource. |
| **Pre-conditions** | the VNF instance resource is in NOT-INSTANTIATED state |
| **Reference** | clause 5.4.10.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| POST Operate VNF  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/OperateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.9.3 POST Operate a vnfInstance Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.9.3 |
| **Test title** | POST Operate a vnfInstance Not Found |
| **Test objective** | The objective is to test that the operation cannot be executed currently, because the resource is not existing |
| **Pre-conditions** | the VNF instance resource is in not existing |
| **Reference** | clause 5.4.10.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| POST Operate VNF  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/OperateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.9.4 GET Operate VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.9.4 |
| **Test title** | GET Operate a vnfInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.10.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| GET Operate VNF  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/OperateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.9.5 PUT Operate VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.9.5 |
| **Test title** | PUT Operate a vnfInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.10.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| PUT Operate VNF  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/OperateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.9.6 PATCH Operate VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.9.6 |
| **Test title** | PATCH Operate a vnfInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.10.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| PATCH Operate VNF  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/OperateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.9.7 DELETE Operate VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.9.7 |
| **Test title** | DELETE Operate a vnfInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.10.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| DELETE Operate VNF  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/OperateVNFTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.10 ChangeExternalVNFConnectivityTask

##### 7.3.1.10.1 POST Change external VNF connectivity

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.10.1 |
| **Test title** | POST Change external VNF connectivity |
| **Test objective** | The objective is to test that POST method trigger a change in VNF external connectivity |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.11.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | in response header Location shall not be null |
| **Test Case** | |
| POST Change External VNF Connectivity  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id existence | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeExternalVNFConnectivityTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.10.2 GET Change external VNF connectivity - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.10.2 |
| **Test title** | GET Change external VNF connectivity - Method not implemented |
| **Test objective** | The objective is to test that GET method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.11.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Change External VNF Connectivity  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeExternalVNFConnectivityTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.10.3 PUT Change external VNF connectivity - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.10.3 |
| **Test title** | PUT Change external VNF connectivity - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.11.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT Change External VNF Connectivity  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeExternalVNFConnectivityTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.10.4 PATCH Change external VNF connectivity - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.10.4 |
| **Test title** | PATCH Change external VNF connectivity - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.11.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH Change External VNF Connectivity  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeExternalVNFConnectivityTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.10.5 DELETE Change external VNF connectivity - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.10.5 |
| **Test title** | DELETE Change external VNF connectivity - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.11.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE Change External VNF Connectivity  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeExternalVNFConnectivityTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.11 VnfLcmOperationOccurences

##### 7.3.1.11.1 POST VNF LCM Operation occurrences - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.11.1 |
| **Test title** | POST VNF LCM Operation occurrences - Method not implemented |
| **Test objective** | The objective is to test that POST method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.12.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post VNF LCM Operation occurrences  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfLcmOperationOccurences.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.11.2 GET status information about multiple VNF LCM Operation OCC

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.11.2 |
| **Test title** | GET status information about multiple VNF LCM Operation OCC |
| **Test objective** | The objective is to test that GET method retrieve Query status information about multiple VNF lifecycle management operation occurrences. |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.12.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF LCM Operation occurrences  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is VnfLcmOpOccs | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfLcmOperationOccurences.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.11.3 GET status information about multiple VNF LCM Operation OCC Bad Request Invalid attribute-based filtering parameters

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.11.3 |
| **Test title** | GET status information about multiple VNF LCM Operation OCC Bad Request Invalid attribute-based filtering parameters |
| **Test objective** | The objective is to test that GET method fail retrieving status information about multiple VNF lifecycle management operation occurrences because attribute is invalid. |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.12.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF LCM Operation occurrences invalid attribute  Check HTTP Response Status Code Is 400 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfLcmOperationOccurences.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.11.4 GET status information about multiple VNF LCM Operation OCC Bad Request Invalid attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.11.4 |
| **Test title** | GET status information about multiple VNF LCM Operation OCC Bad Request Invalid attribute selector |
| **Test objective** | The objective is to test that GET method fail retrieving status information about multiple VNF lifecycle management operation occurrences because attribute is invalid. |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.12.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF LCM Operation occurrences invalid filter  Check HTTP Response Status Code Is 400 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfLcmOperationOccurences.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.11.5 GET status information about multiple VNF LCM Operation OCC with "all\_fields"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.11.5 |
| **Test title** | GET status information about multiple VNF LCM Operation OCC with "all\_fields" |
| **Test objective** | The objective is to test that GET method retrieve Query status information about multiple VNF lifecycle management operation occurrences. |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.12.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF LCM Operation occurrences with all\_fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is VnfLcmOpOccs | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfLcmOperationOccurences.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.11.6 GET status information about multiple VNF LCM Operation OCC with "exlude\_default"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.11.6 |
| **Test title** | GET status information about multiple VNF LCM Operation OCC with "exclude\_default" |
| **Test objective** | The objective is to test that GET method retrieve Query status information about multiple VNF lifecycle management operation occurrences. |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.12.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF LCM Operation occurrences with exclude\_default attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is VnfLcmOpOccs | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfLcmOperationOccurences.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.11.7 GET status information about multiple VNF LCM Operation OCC with "fields"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.11.7 |
| **Test title** | GET status information about multiple VNF LCM Operation OCC with "fields" |
| **Test objective** | The objective is to test that GET method retrieve Query status information about multiple VNF lifecycle management operation occurrences. |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.12.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF LCM Operation occurrences with fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is VnfLcmOpOccs | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfLcmOperationOccurences.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.11.8 GET status information about multiple VNF LCM Operation OCC with "exclude\_fields"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.11.8 |
| **Test title** | GET status information about multiple VNF LCM Operation OCC with "exclude\_fields" |
| **Test objective** | The objective is to test that GET method retrieve Query status information about multiple VNF lifecycle management operation occurrences. |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.12.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF LCM Operation occurrences with exclude\_fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is VnfLcmOpOccs | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfLcmOperationOccurences.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.11.9 PUT status information about multiple VNF LCM Operation OCC - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.11.9 |
| **Test title** | PUT status information about multiple VNF LCM Operation OCC - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.12.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT VNF LCM Operation occurrences  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfLcmOperationOccurences.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.11.10 PATCH status information about multiple VNF LCM Operation OCC - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.11.10 |
| **Test title** | PATCH status information about multiple VNF LCM Operation OCC - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.12.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH VNF LCM Operation occurrences  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfLcmOperationOccurences.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.11.11 DELETE status information about multiple VNF LCM Operation OCC - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.11.11 |
| **Test title** | DELETE status information about multiple VNF LCM Operation OCC - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.12.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE VNF LCM Operation occurrences  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfLcmOperationOccurences.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.12 IndividualVnfLcmOperationOccurence

##### 7.3.1.12.1 Post Individual VNF LCM Operation occurrences - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.12.1 |
| **Test title** | Post Individual VNF LCM Operation occurrences - Method not implemented |
| **Test objective** | The objective is to test that POST method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.13.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Individual VNF LCM Operation occurrences  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVnfLcmOperationOccurence.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.12.2 Get information about multiple VNF instances

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.12.2 |
| **Test title** | Get information about multiple VNF instances |
| **Test objective** | The objective is to test that this method retrieve information about multiple VNF lifecycle management operation occurrences |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.13.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get multiple VNF instances  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfLcmOpOcc | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVnfLcmOperationOccurence.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.12.3 PUT Individual VNF LCM Operation occurrences - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.12.3 |
| **Test title** | PUT Individual VNF LCM Operation occurrences - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.13.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Put multiple VNF instances  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVnfLcmOperationOccurence.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.12.4 PATCH Individual VNF LCM Operation occurrences - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.12.4 |
| **Test title** | PATCH Individual VNF LCM Operation occurrences - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.13.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Patch multiple VNF instances  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVnfLcmOperationOccurence.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.12.5 DELETE Individual VNF LCM Operation occurrences - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.12.5 |
| **Test title** | DELETE Individual VNF LCM Operation occurrences - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.13.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Delete multiple VNF instances  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVnfLcmOperationOccurence.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.13 RetryOperationTask

##### 7.3.1.13.1 Post Retry operation task

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.13.1 |
| **Test title** | Post Retry operation task |
| **Test objective** | The objective is to test that POST method The POST method initiates retrying a VNF lifecycle operation if the operation is in FAILED\_TEMP state |
| **Pre-conditions** | the "VNF LCM operation occurrence" resource is in "FAILED\_TEMP" state. |
| **Reference** | clause 5.4.14.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Retry operation  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id existence | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RetryOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.13.2 Post Retry operation task Conflict (Not-FAILED\_TEMP)

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.13.2 |
| **Test title** | Post Retry operation task Conflict (Not-FAILED\_TEMP) |
| **Test objective** | The objective is to test that the retry operation cannot be executed currently, due to a conflict with the state of the VNF instance resource. (i.e. the VNF instance resource is not in FAILED\_TEMP state) |
| **Pre-conditions** | the "VNF LCM operation occurrence" resource is not in "FAILED\_TEMP" state. |
| **Reference** | clause 5.4.14.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Retry operation  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RetryOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.13.3 Post Retry operation task Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.13.3 |
| **Test title** | Post Retry operation task Not Found |
| **Test objective** | The objective is to test that the retry operation cannot be executed because the operation is not supported |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.14.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Retry operation  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RetryOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.13.4 GET Retry operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.13.4 |
| **Test title** | GET Retry operation task- Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.14.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| Get Retry operation  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RetryOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.13.5 PUT Retry operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.13.5 |
| **Test title** | PUT Retry operation task- Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.14.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| Put Retry operation  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RetryOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.13.6 PATCH Retry operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.13.6 |
| **Test title** | PATCH Retry operation task- Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.14.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| Patch Retry operation  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RetryOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.13.7 DELETE Retry operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.13.7 |
| **Test title** | DELETE Retry operation task- Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.14.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| Delete Retry operation  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RetryOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.14 RollbackOperationTask

##### 7.3.1.14.1 Post Rollback operation task

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.14.1 |
| **Test title** | Post Rollback operation task |
| **Test objective** | The objective is to test that POST method initiates rollback on a VNF lifecycle operation |
| **Pre-conditions** | the "VNF LCM operation occurrence" resource is in "FAILED\_TEMP" state. |
| **Reference** | clause 5.4.15.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Rollback operation  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id existence | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RollbackOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.14.2 POST Rollback operation task Conflict (Not-FAILED\_TEMP)

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.14.2 |
| **Test title** | POST Rollback operation task Conflict (Not-FAILED\_TEMP) |
| **Test objective** | The objective is to test that POST method initiates a rollback on a VNF lifecycle operation |
| **Pre-conditions** | the "VNF LCM operation occurrence" resource is not in "FAILED\_TEMP" state. |
| **Reference** | clause 5.4.15.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Rollback operation  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RollbackOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.14.3 POST Rollback operation task Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.14.3 |
| **Test title** | POST Rollback operation task Not Found |
| **Test objective** | The objective is to test that the retry operation cannot be executed because the operation is not supported |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.15.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Rollback operation  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RollbackOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.14.4 GET Rollback operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.14.4 |
| **Test title** | GET Rollback operation task - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.15.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| Get Rollback operation  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RollbackOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.14.5 PUT Rollback operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.14.5 |
| **Test title** | PUT Rollback operation task - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.15.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| Put Rollback operation  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RollbackOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.14.6 PATCH Rollback operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.14.6 |
| **Test title** | PATCH Rollback operation task - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.15.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| Patch Rollback operation  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RollbackOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.14.7 DELETE Rollback operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.14.7 |
| **Test title** | DELETE Rollback operation task - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.15.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| Delete Rollback operation  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RollbackOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.15 FailOperationTask

##### 7.3.1.15.1 POST Fail operation task

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.15.1 |
| **Test title** | POST Fail operation task |
| **Test objective** | The objective is to test that POST method mark as "finally failed" a VNF lifecycle operation |
| **Pre-conditions** | the "VNF LCM operation occurrence" resource is in "FAILED\_TEMP" state. |
| **Reference** | clause 5.4.16.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | VNF resource state is FINALLY\_FAILED |
| **Test Case** | |
| Post Fail operation  Check HTTP Response Status Code Is 200 Check Operation Occurrence Id existence  Check operation resource state is FINALLY\_FAILED | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/FailOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.15.2 Post Fail operation task Conflict (Not-FAILED\_TEMP)

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.15.2 |
| **Test title** | Post Fail operation task |
| **Test objective** | The objective is to test that POST method cannot mark as "finally failed" a VNF lifecycle operation |
| **Pre-conditions** | the "VNF LCM operation occurrence" resource is not in "FAILED\_TEMP" state. |
| **Reference** | clause 5.4.16.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Fail operation  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/FailOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.15.3 Post Fail operation task Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.15.3 |
| **Test title** | Post Fail operation task |
| **Test objective** | The objective is to test that POST method cannot mark as "finally failed" a VNF lifecycle operation because the operation is not supported |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.16.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Fail operation  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/FailOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.15.4 GET Fail operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.15.4 |
| **Test title** | GET Fail operation task- Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.16.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| Get Fail operation  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/FailOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.15.5 PUT Fail operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.15.5 |
| **Test title** | PUT Fail operation task- Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.16.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| Put Fail operation  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/FailOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.15.6 PATCH Fail operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.15.6 |
| **Test title** | GET Fail operation task- Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.16.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| Patch Fail operation  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/FailOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.15.7 DELETE Fail operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.15.7 |
| **Test title** | DELETE Fail operation task- Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.16.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** |  |
| **Test Case** | |
| Delete Fail operation  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/FailOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.16 CancelOperationTask

##### 7.3.1.16.1 POST Cancel operation task

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.16.1 |
| **Test title** | POST Cancel operation task |
| **Test objective** | The POST method initiates cancelling an ongoing VNF lifecycle operation while it is being executed or rolled back, i.e. the "VNF LCM operation occurrence" is either in "PROCESSING" or "ROLLING\_BACK" state. |
| **Pre-conditions** | the "VNF LCM operation occurrence" is either in "PROCESSING" or "ROLLING\_BACK" state. |
| **Reference** | clause 5.4.17.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | VNF instance status equal to FAILED\_TEMP |
| **Test Case** | |
| POST Cancel operation task  Check HTTP Response Status Code Is 202 Check operation resource state is FAILED\_TEMP | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/CancelOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.16.2 POST Cancel operation task Conflict

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.16.2 |
| **Test title** | POST Cancel operation task Conflict |
| **Test objective** | The POST method is NOT cancelling an ongoing VNF lifecycle operation due to the fact that the VNF instance resource is not in STARTING, PROCESSING or ROLLING\_BACK state |
| **Pre-conditions** | operation is not in STARTING, PROCESSING or ROLLING\_BACK state |
| **Reference** | clause 5.4.17.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Cancel operation task  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/CancelOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.16.3 POST Cancel operation task Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.16.3 |
| **Test title** | POST Cancel operation task Not Found |
| **Test objective** | The objective is to test that POST method cannot cancel a VNF lifecycle operation because the resource is not found |
| **Pre-conditions** |  |
| **Reference** | clause 5.4.17.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Cancel operation task  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/CancelOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.16.4 GET Cancel operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.16.4 |
| **Test title** | GET Cancel operation task - Method not implemented |
| **Test objective** | The objective is to test that GET method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.17.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Cancel operation task  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/CancelOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.16.5 PUT Cancel operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.16.5 |
| **Test title** | PUT Cancel operation task - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.17.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT Cancel operation task  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/CancelOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.16.6 PATCH Cancel operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.16.6 |
| **Test title** | PATCH Cancel operation task - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.17.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH Cancel operation task  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/CancelOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.16.7 DELETE Cancel operation task - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.16.7 |
| **Test title** | DELETE Cancel operation task - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.17.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE Cancel operation task  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/CancelOperationTask.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.17 Subscriptions

##### 7.3.1.17.1 POST Create a new subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.17.1 |
| **Test title** | POST Create a new subscription |
| **Test objective** | The POST method creates a new subscription |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.18.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | in response header Location shall not be null |
| **Test Case** | |
| Post Create subscription  Check HTTP Response Status Code Is 201 Check HTTP Response Body Json Schema Is Subscription | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.17.2 Create a new Subscription - DUPLICATION

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.17.2 |
| **Test title** | POST Create a new subscription - DUPLICATION |
| **Test objective** | The POST method creates a duplicate subscription |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.18.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | The VNFM support the creation of duplicated subscriptions |
| **Post-Conditions** | in response header Location shall not be null |
| **Test Case** | |
| Post Create subscription - DUPLICATION  Check HTTP Response Status Code Is 201 Check HTTP Response Body Json Schema Is Subscription | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.17.3 Create a new Subscription - NO-DUPLICATION

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.17.3 |
| **Test title** | POST Create a new subscription - NO-DUPLICATION |
| **Test objective** | The POST method cannot create a duplicate subscription |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.18.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | The VNFM does not support the creation of duplicated subscriptions |
| **Post-Conditions** | in response header Location shall not be null |
| **Test Case** | |
| Post Create subscription - NO-DUPLICATION  Check HTTP Response Status Code Is 303 Check Operation Occurrence Id existence | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.17.4 GET Subscriptions

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.17.4 |
| **Test title** | GET Subscriptions |
| **Test objective** | The objective is Get the list of active subscriptions |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.18.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get subscriptions  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is Subscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.17.5 GET Subscription - Filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.17.5 |
| **Test title** | GET Subscriptions - Filter |
| **Test objective** | The objective is Get the list of active subscriptions using a filter |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.18.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get subscriptions - filter  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is Subscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.17.6 GET subscriptions - Bad Request Invalid attribute-based filtering parameters

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.17.6 |
| **Test title** | GET subscriptions - Bad Request Invalid attribute-based filtering parameters |
| **Test objective** | The objective is Get the list of active subscriptions using an invalid filter |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.18.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get subscriptions - invalid filter  Check HTTP Response Status Code Is 400 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.17.7 GET subscriptions with all\_fields attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.17.7 |
| **Test title** | GET subscriptions with all\_fields attribute selector |
| **Test objective** | The objective is Get the list of active subscriptions |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.18.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get subscriptions with all\_fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is Subscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.17.8 GET subscriptions with exclude\_default attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.17.8 |
| **Test title** | GET subscriptions with exclude\_default attribute selector |
| **Test objective** | The objective is Get the list of active subscriptions |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.18.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get subscriptions with exclude\_default attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is Subscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.17.9 GET subscriptions with fields attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.17.9 |
| **Test title** | GET subscriptions with fields attribute selector |
| **Test objective** | The objective is Get the list of active subscriptions |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.18.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get subscriptions with fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is Subscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.17.10 GET subscriptions with exclude\_fields attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.17.10 |
| **Test title** | GET subscriptions with exclude\_fields attribute selector |
| **Test objective** | The objective is Get the list of active subscriptions |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.18.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get subscriptions with exclude\_fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is Subscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.17.11 PUT subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.17.11 |
| **Test title** | PUT subscriptions - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.18.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT subscriptions  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.17.12 PATCH subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.17.12 |
| **Test title** | PATCH subscriptions - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.18.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | subscription not modified |
| **Test Case** | |
| PATCH subscriptions  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.17.13 DELETE subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.17.13 |
| **Test title** | DELETE subscriptions - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.18.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | subscription not deleted |
| **Test Case** | |
| DELETE subscriptions  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.18 IndividualSubscription

##### 7.3.1.18.1 POST Individual Subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.18.1 |
| **Test title** | POST Individual Subscription - Method not implemented |
| **Test objective** | The objective is to test that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.19.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Create Individual subscription  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.18.2 GET Individual Subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.18.2 |
| **Test title** | GET Individual Subscription |
| **Test objective** | The objective is to test the Get individual subscription |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.19.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get Individual Subscription  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is Subscription | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.18.3 PUT an individual subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.18.3 |
| **Test title** | PUT an individual subscription - Method not implemented |
| **Test objective** | The objective is to test that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.19.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Put Individual subscription  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.18.4 PATCH an individual subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.18.4 |
| **Test title** | PATCH an individual subscription - Method not implemented |
| **Test objective** | The objective is to test that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.19.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Patch Individual subscription  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.18.5 DELETE an individual subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.18.5 |
| **Test title** | DELETE an individual subscription |
| **Test objective** | The objective is to test that 200 is returned |
| **Pre-conditions** | none |
| **Reference** | clause 5.4.19.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | subscription deleted from VNFM |
| **Test Case** | |
| Delete Individual subscription  Check HTTP Response Status Code Is 200 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.19 CancelOperationWorkflow

##### 7.3.1.19.1 Cancel a VNF LCM Operation - STARTING

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.19.1 |
| **Test title** | Cancel a VNF LCM Operation - STARTING |
| **Test objective** | The objective is to test the workflow for Cancelling a VNF LCM Operation being in the STARTING state |
| **Pre-conditions** | The VNF lifecycle management operation occurrence is in STARTING state. NFVO is subscribed to VNF LCM Operation Occurrence notifications (Test ID 5.4.20.1) |
| **Reference** | clause 5.4.17 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM |
| **Post-Conditions** | The VNF lifecycle management operation occurrence is in ROLLED\_BACK state |
| **Test Case** | |
| Send Cancel Operation Request  Check HTTP Response Status Code Is 202 Check HTTP Response Header Contains Location Check Operation Occurrence Id existence  Check Operation Notification For Cancel ROLLED\_BACK Check Postcondition VNF Cancel - STARTING | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/CancelOperationWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.19.2 Cancel a VNF LCM Operation - PROCESSING - ROLLING\_BACK

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.19.2 |
| **Test title** | Cancel a VNF LCM Operation - PROCESSING - ROLLING\_BACK |
| **Test objective** | The objective is to test the workflow for Cancelling a VNF LCM Operation being either in the PROCESSIONG or ROLLING\_BACK state |
| **Pre-conditions** | The VNF lifecycle management operation occurrence is in PROCESSING or ROLLING\_BACK state. NFVO is subscribed to VNF LCM Operation Occurrence notifications |
| **Reference** | clause 5.3.10 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM |
| **Post-Conditions** | The VNF lifecycle management operation occurrence is in FAILED\_TEMP state |
| **Test Case** | |
| Send Cancel Operation Request  Check HTTP Response Status Code Is 202 Check HTTP Response Header Contains Location Check Operation Occurrence Id existence  Check Operation Notification For Cancel FAILED\_TEMP Check Postcondition VNF Cancel - PROCESSING - ROLLING\_BACK | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/CancelOperationWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.20 ChangeExternalVNFConnectivityWorkflow

##### 7.3.1.20 Change external connectivity of VNF Workflow

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.20 |
| **Test title** | Change external connectivity of VNF Workflow |
| **Test objective** | The objective is to change the external connectivity of a VNF instance. |
| **Pre-conditions** | VNF instance in INSTANTIATED state |
| **Reference** | clause 5.4.11 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM. The VNFD supports the external connectivity change |
| **Post-Conditions** | VNF instance still in INSTANTIATED state and external connectivity of the VNF is changed |
| **Test Case** | |
| Send Change Ext Connectivity Request  Check HTTP Response Status Code Is 202 Check HTTP Response Header Contains Location Check Operation Occurrence Id existence  Check Operation Notification For Change Ext Connectivity STARTING Check Operation Notification For Change Ext Connectivity PROCESSING Check Operation Notification For Change Ext Connectivity COMPLETED Check Postcondition VNF Change Ext Connectivity | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeExternalVNFConnectivityWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.21 ChangeVNFFlavourWorkflow

##### 7.3.1.21 Change VNF Flavour Workflow

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.21 |
| **Test title** | Change VNF Flavour Workflow |
| **Test objective** | The objective is to test the workflow for a change flavour of an existing VNF instance |
| **Pre-conditions** | VNF instance in INSTANTIATED state . NFVO is subscribed to VNF LCM Operation Occurrence notifications |
| **Reference** | clause 5.4.7 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | Multiple flavours are supported for the VNF (as capability in the VNFD). NFVO is able to receive notifications from VNFM |
| **Post-Conditions** | VNF instance still in INSTANTIATED state and the flavour is changed |
| **Test Case** | |
| Send Change VNF Flavour Request  Check HTTP Response Status Code Is 202 Check HTTP Response Header Contains Location Check Operation Occurrence Id existence  Check Operation Notification For Change Flavour STARTING Check Operation Notification For Change Flavour PROCESSING Check Operation Notification For Change Flavour COMPLETED Check Postcondition VNF Flavor Changed | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeVNFFlavourWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.22 CreateVNFWorkflow

##### 7.3.1.22 Create VNF Instance Resource

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.22 |
| **Test title** | Create VNF Instance workflow |
| **Test objective** | The objective is to test the workflow for the creation of a new VNF instance resource. |
| **Pre-conditions** | NFVO is subscribed to VNF Identifier Creation notifications |
| **Reference** | clause 5.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM |
| **Post-Conditions** | The VNF instance resource has been created in "NOT\_INSTANTIATED" state. |
| **Test Case** | |
| Send VNF Instance Resource create Request  Check HTTP Response Status Code Is 201 Check HTTP Response Header Contains Location Check Operation Notification For VNF Instance Creation  Check Postcondition VNF Instance Created status is NOT\_INSTANTIATED | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/CreateVNFWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.23 DeleteVNFWorkflow

##### 7.3.1.23 Delete VNF Instance Resource

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.23 |
| **Test title** | Delete VNF Instance workflow |
| **Test objective** | The objective is to test the workflow for the deleteion of an existing VNF instance resource |
| **Pre-conditions** | The VNF Instance resource is in NOT\_INSTANTIATED state. NFVO is subscribed to VNF Identifier Creation notifications |
| **Reference** | clause 5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM |
| **Post-Conditions** | The VNF instance resource is deleted on the VNFM. |
| **Test Case** | |
| Send VNF Instance Resource delete Request  Check HTTP Response Status Code Is 204 Check Operation Notification For VNF Instance Deletion  Check Postcondition VNF Instance Deleted | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/DeleteVNFWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.24 FailOperationWorkflow

##### 7.3.1.24 Fail a VNF LCM Operation Workflow

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.24 |
| **Test title** | Fail a VNF LCM Operation Workflow |
| **Test objective** | The objective is to test the workflow for a Fail VNF LCM Operation |
| **Pre-conditions** | The VNF lifecycle management operation occurrence is in FAILED\_TEMP state. NFVO is subscribed to VNF LCM Operation Occurrence notifications |
| **Reference** | clause 5.4.16 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM |
| **Post-Conditions** | The VNF lifecycle management operation occurrence is in FAILED state |
| **Test Case** | |
| Send Fail Operation Request  Check Operation Notification For Fail FAILED Check HTTP Response Status Code Is 200 Check Postcondition VNF Fail | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/FailOperationWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.25 HealVNFWorkflow

##### 7.3.1.25 Heal a VNF Instance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.25 |
| **Test title** | Heal a VNF Instance |
| **Test objective** | The objective is to heal a VNF instance. |
| **Pre-conditions** | VNF instance in INSTANTIATED state |
| **Reference** | clause 5.4.9 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM. Heal a VNF instance is supported for the VNF (as capability in the VNFD) |
| **Post-Conditions** | VNF instance still in INSTANTIATED state |
| **Test Case** | |
| Send Heal VNF Request  Check HTTP Response Status Code Is 202 Check HTTP Response Header Contains Location Check Operation Occurrence Id existence  Check Operation Notification For Heal STARTING Check Operation Notification For Heal PROCESSING Check Operation Notification For Heal COMPLETED Check Postcondition VNF Heal | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/HealVNFWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.26 InstantiateVNFTaskWorkflow

##### 7.3.1.26 VNF Instantiation

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.26 |
| **Test title** | VNF Instantiation workflow |
| **Test objective** | The objective is to test the workflow for the instantiation of a VNF instance |
| **Pre-conditions** | VNF instance resources is already created. NFVO is subscribed to VNF LCM Operation Occurrence notifications |
| **Reference** | clause 5.4.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM |
| **Post-Conditions** | VNF instance in INSTANTIATED state |
| **Test Case** | |
| Send VNF Instantiation Request  Check HTTP Response Status Code Is 202 Check HTTP Response Header Contains Location Check Operation Occurrence Id existence  Check Operation Notification For Instantiation STARTING Check Operation Notification For Instantiation PROCESSING Check Operation Notification For Instantiation COMPLETED Check Postcondition VNF Status INSTANTIATED | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/InstantiateVNFTaskWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.27 ModifyVNFInformationWorkflow

##### 7.3.1.27 Modify info of a VNF Instance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.27 |
| **Test title** | Update information about a VNF instance |
| **Test objective** | The objective is to update information about a VNF instance. |
| **Pre-conditions** | VNF instance is created |
| **Reference** | clause 5.3.6 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM. Update information of a VNF instance is supported for the VNF (as capability in the VNFD) |
| **Post-Conditions** | VNF instance info is updated |
| **Test Case** | |
| Send Info Modification Request  Check HTTP Response Status Code Is 202 Check HTTP Response Header Contains Location Check Operation Occurrence Id existence  Check Operation Notification For Modify Info start Check Operation Notification For Modify Info result Check Postcondition VNF Modify Info | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ModifyVNFInformationWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.28 OperateVNFWorkflow

##### 7.3.1.28 Operate a VNF Instance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.28 |
| **Test title** | Operate a VNF Instance |
| **Test objective** | The objective is to test the workflow of operational change of a VNF instance. |
| **Pre-conditions** | VNF instance in INSTANTIATED state |
| **Reference** | clause 5.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | change the operational state of a VNF instance is supported for the VNF (as capability in the VNFD) |
| **Post-Conditions** | VNF instance still in INSTANTIATED state and the operational state is changed |
| **Test Case** | |
| Send Change VNF Operational State Request  Check HTTP Response Status Code Is 202 Check HTTP Response Header Contains Location Check Operation Occurrence Id existence  Check Operation Notification For Operate STARTING Check Operation Notification For Operate PROCESSING Check Operation Notification For Operate COMPLETED Check Postcondition VNF OPERATE | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/OperateVNFWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.29 RetryOperationWorkflow

##### 7.3.1.29.1 Retry VNF LCM Operation - Successful

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.29.1 |
| **Test title** | Retry VNF LCM Operation - Successful |
| **Test objective** | The objective is to test the workflow for a successful Retry VNF LCM Operation and the status notifications |
| **Pre-conditions** | The VNF lifecycle management operation occurrence is in FAILED\_TEMP state. NFVO is subscribed to VNF LCM Operation Occurrence notifications |
| **Reference** | clause 5.3.10 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM |
| **Post-Conditions** | The VNF lifecycle management operation occurrence is in COMPLETED state |
| **Test Case** | |
| Send Retry Operation Request  Check HTTP Response Status Code Is 202 Check HTTP Response Header Contains Location Check Operation Occurrence Id existence  Check Operation Notification For Retry PROCESSING Check Operation Notification For Retry COMPLETED Check Postcondition VNF Retry Successful | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RetryOperationWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.29.2 Retry VNF LCM Operation - Unsuccessful

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.29.2 |
| **Test title** | Retry VNF LCM Operation - Unsuccessful |
| **Test objective** | The objective is to test the workflow for an unsuccesful Retry VNF LCM Operation and the status notifications |
| **Pre-conditions** | The VNF lifecycle management operation occurrence is in FAILED\_TEMP state. NFVO is subscribed to VNF LCM Operation Occurrence notifications |
| **Reference** | clause 5.3.10 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM |
| **Post-Conditions** | The VNF lifecycle management operation occurrence is in FAILED\_TEMP state |
| **Test Case** | |
| Send Retry Operation Request  Check HTTP Response Status Code Is 202 Check HTTP Response Header Contains Location Check Operation Occurrence Id existence  Check Operation Notification For Retry PROCESSING Check Operation Notification For Retry FAILED\_TEMP Check Postcondition VNF Retry Unsuccessful | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RetryOperationWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.30 RollBackOperationWorkflow

##### 7.3.1.30.1 Rollback a VNF LCM Operation - Successful

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.30.1 |
| **Test title** | Rollback VNF LCM Operation - Successful |
| **Test objective** | The objective is to test the workflow for a Rolling Back a VNF LCM Operation and the operation is successful |
| **Pre-conditions** | The VNF lifecycle management operation occurrence is in FAILED\_TEMP state. NFVO is subscribed to VNF LCM Operation Occurrence notifications |
| **Reference** | clause 5.3.11 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM |
| **Post-Conditions** | The VNF lifecycle management operation occurrence is in ROLLED\_BACK state |
| **Test Case** | |
| Send Roll back Operation Request  Check HTTP Response Status Code Is 202 Check HTTP Response Header Contains Location Check Operation Occurrence Id existence  Check Operation Notification For Roll Back ROLLING\_BACK Check Operation Notification For Roll Back ROLLED\_BACK Check Postcondition VNF Roll Back Successful | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RollBackOperationWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.30.2 Rollback VNF LCM Operation - Unsuccessful

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.30.2 |
| **Test title** | Rollback VNF LCM Operation - Unsuccessful |
| **Test objective** | The objective is to test the workflow for a Rollback VNF LCM Operation and the operation is not successful |
| **Pre-conditions** | The VNF lifecycle management operation occurrence is in FAILED\_TEMP state. NFVO is subscribed to VNF LCM Operation Occurrence notifications |
| **Reference** | clause 5.3.10 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM |
| **Post-Conditions** | The VNF lifecycle management operation occurrence is in FAILED\_TEMP state |
| **Test Case** | |
| Send Roll back Operation Request  Check HTTP Response Status Code Is 202 Check HTTP Response Header Contains Location Check Operation Occurrence Id existence  Check Operation Notification For Roll Back ROLLING\_BACK Check Operation Notification For Roll Back FAILED\_TEMP Check Postcondition VNF Roll Back UnSuccessful | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RollBackOperationWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.31 ScaleVNFToLevelWorkflow

##### 7.3.1.31 VNF Instance Scale To Level

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.31 |
| **Test title** | VNF Instance Scale To Level workflow |
| **Test objective** | The objective is to test the workflow for the scale to level of a VNF instance |
| **Pre-conditions** | VNF instance in INSTANTIATED state . NFVO is subscribed to VNF LCM Operation Occurrence notifications |
| **Reference** | clause 5.4.6 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM. Scale operation is supported for the VNF (as capability in the VNFD) |
| **Post-Conditions** | VNF instance still in INSTANTIATED state and VNF is scaled to the new level |
| **Test Case** | |
| Send VNF Scale To Level Request  Check HTTP Response Status Code Is 202 Check HTTP Response Header Contains Location Check Operation Occurrence Id existence  Check Operation Notification For Scale STARTING Check Operation Notification For Scale PROCESSING Check Operation Notification For Scale COMPLETED Check Postcondition VNF Scaled To New Level | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFToLevelWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.32 ScaleVNFWorkflow

##### 7.3.1.32 VNF Instance Scale Out

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.32 |
| **Test title** | VNF Instance Scale Out workflow |
| **Test objective** | The objective is to test the workflow for the scaling out a VNF instance |
| **Pre-conditions** | VNF instance in INSTANTIATED state (Test ID 5.4.4.1). NFVO is subscribed to VNF LCM Operation Occurrence notifications (Test ID 5.4.20.1) |
| **Reference** | clause 5.4.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM. Scale operation is supported for the VNF (as capability in the VNFD) |
| **Post-Conditions** | VNF instance still in INSTANTIATED state and VNF is scaled out |
| **Test Case** | |
| Send VNF Scale Out Request  Check HTTP Response Status Code Is 202 Check HTTP Response Header Contains Location Check Operation Occurrence Id existence  Check Operation Notification For Scale STARTING Check Operation Notification For Scale PROCESSING Check Operation Notification For Scale COMPLETED Check Postcondition VNF SCALE\_OUT | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.33 TerminateVNFWorkflow

##### 7.3.1.33 Terminate a VNF Instance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.33 |
| **Test title** | Terminate a VNF Instance |
| **Test objective** | The objective is to terminate a VNF instance. |
| **Pre-conditions** | VNF instance in INSTANTIATED state |
| **Reference** | clause 5.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | NFVO is able to receive notifications from VNFM. |
| **Post-Conditions** | VNF instance in NOT\_INSTANTIATED state |
| **Test Case** | |
| Send Terminate VNF Request  Check HTTP Response Status Code Is 202 Check HTTP Response Header Contains Location Check Operation Occurrence Id existence  Check Operation Notification For Terminate STARTING Check Operation Notification For Terminate PROCESSING Check Operation Notification For Terminate COMPLETED Check Postcondition VNF Terminate | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/TerminateVNFWorkflow.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

#### 7.3.1.34 NotificationEndpoint

##### 7.3.1.19.1 VNF LCM Operation Occurrence Start Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.19.1 |
| **Test title** | VNF LCM Operation Occurrence Start Notification |
| **Test objective** | The objective is to test the dispatch of VNF LCM Operation Occurrence Start Notification when a new VNF LCM operation is started in the VNFM, and perform a JSON schema and content validation of the delivered notification. The action that triggers the notification under test is an explicit test step, but it is not performed by the test system. |
| **Pre-conditions** | A subscription for VNF LCM Operation Occurrence notifications is available in the VNFM. |
| **Reference** | clause 5.4.20.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Trigger a VNF LCM operation (external action)  Check VNF LCM Operation Occurrence Start Notification Http POST Request Body Json Schema Is VnfLcmOperationOccurrenceNotification Check VNF LCM Operation Occurrence Start Notification Http POST Request Body notificationType attribute Is VnfLcmOperationOccurrenceNotification Check VNF LCM Operation Occurrence Start Notification Http POST Request Body notificationStatus attribute Is START | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.19.2 VNF LCM Operation Occurrence Result Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.19.2 |
| **Test title** | VNF LCM Operation Occurrence Result Notification |
| **Test objective** | The objective is to test the dispatch of VNF LCM Operation Occurrence Result Notification when a VNF LCM operation is completed in the VNFM, and perform a JSON schema and content validation of the delivered notification. The action that triggers the notification under test is an explicit test step, but it is not performed by the test system. |
| **Pre-conditions** | An VNF LCM operation is in progress, and a subscription for VNF LCM Operation Occurrence notifications is available in the VNFM. |
| **Reference** | clause 5.4.20.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Trigger the completion of an VNF LCM operation (external action)  Check VNF LCM Operation Occurrence Result Notification Http POST Request Body Json Schema Is VnfLcmOperationOccurrenceNotification Check VNF LCM Operation Occurrence Result Notification Http POST Request Body notificationType attribute Is VnfLcmOperationOccurrenceNotification Check VNF LCM Operation Occurrence Start Notification Http POST Request Body notificationStatus attribute Is RESULT | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.19.3 VNF Identifier Creation Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.19.3 |
| **Test title** | VNF Identifier Creation Notification |
| **Test objective** | The objective is to test the dispatch of VNF Identifier Creation Notification when a new VNF instance resource is created in the VNFM, and perform a JSON schema and content validation of the delivered notification. The action that triggers the notification under test is an explicit test step, but it is not performed by the test system. |
| **Pre-conditions** | A subscription for VNF identifier creation notifications is available in the VNFM. |
| **Reference** | clause 5.4.20.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Trigger the creation of a VNF instance resource (external action)  Check VNF Identifier Creation Notification Http POST Request Body Json Schema Is VnfIdentifierCreationNotification Check VNF Identifier Creation Notification Http POST Request Body notificationType attribute Is VnfIdentifierCreationNotification | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

##### 7.3.1.19.4 VNF Identifier Deletion Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.1.19.4 |
| **Test title** | VNF Identifier Deletion Notification |
| **Test objective** | The objective is to test the dispatch of VNF Identifier Deletion Notification when a VNF instance resource is deleted in the VNFM, and perform a JSON schema and content validation of the delivered notification. The action that triggers the notification under test is an explicit test step, but it is not performed by the test system. |
| **Pre-conditions** | A VNF instance resource is created, and a subscription for VNF identifier creation notifications is available in the VNFM. |
| **Reference** | clause 6.4.18.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Trigger the deletion of a VNF instance resource (external action)  Check VNF Identifier Deletion Notification Http POST Request Body Json Schema Is VnfIdentifierDeletionNotification Check VNF Identifier Deletion Notification Http POST Request Body notificationType attribute Is VnfIdentifierDeletionNotification | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/90e8a36/SOL003/VNFLifecycleManagement-API>

### 7.3.2 VNF Lifecycle Operation Granting Interface

#### 7.3.2.1 Grants

##### 7.3.2.1.1 Requests a grant for a particular VNF lifecycle operation - Synchronous mode

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.2.1.1 |
| **Test title** | Requests a grant for a particular VNF lifecycle operation - Synchronous mode |
| **Test objective** | The objective is to request a grant for a particular VNF lifecycle operation and perform a JSON schema validation on the returned grant data structure |
| **Pre-conditions** |  |
| **Reference** | clause 9.4.2.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The NFVO can decide immediately what to respond to a grant request |
| **Post-Conditions** | The grant information is available to the VNFM. |
| **Test Case** | |
| Send Request Grant Request in Synchronous mode  Check HTTP Response Status Code Is 201 Check Operation Occurrence Id existence  Check HTTP Response Body Json Schema Is grant | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Grants.robot/90e8a36/SOL003/VNFLifecycleOperationGranting-API>

##### 7.3.2.1.2 Requests a grant for a particular VNF lifecycle operation - Asynchronous mode

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.2.1.2 |
| **Test title** | Requests a grant for a particular VNF lifecycle operation - Asynchronous mode |
| **Test objective** | The objective is to request a grant for a particular VNF lifecycle operation |
| **Pre-conditions** |  |
| **Reference** | clause 9.4.2.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The NFVO can not decide immediately what to respond to a grant request |
| **Post-Conditions** | The grant information is available to the VNFM. |
| **Test Case** | |
| Send Request Grant Request in Asynchronous mode  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id existence  Check HTTP Response Body Json Schema Is grant Wait for individual grant successful notification | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Grants.robot/90e8a36/SOL003/VNFLifecycleOperationGranting-API>

##### 7.3.2.1.3 Requests a grant for a particular VNF lifecycle operation - Forbidden

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.2.1.3 |
| **Test title** | Requests a grant for a particular VNF lifecycle operation - Forbidden |
| **Test objective** | The objective is to request a grant for a particular VNF lifecycle operation and check the content of the problem details data structure returned |
| **Pre-conditions** | The grant should not be accorded |
| **Reference** | clause 9.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Request a new Grant Forbidden  Check HTTP Response Status Code Is 403 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Grants.robot/90e8a36/SOL003/VNFLifecycleOperationGranting-API>

##### 7.3.2.1.4 GET Grants - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.2.1.4 |
| **Test title** | GET Grants - Method not implemented |
| **Test objective** | The objective is to test that GET method is not allowed for Life cycle operation granting |
| **Pre-conditions** | none |
| **Reference** | clause 9.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get Grants  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Grants.robot/90e8a36/SOL003/VNFLifecycleOperationGranting-API>

##### 7.3.2.1.5 PUT Grants - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.2.1.5 |
| **Test title** | PUT Grants - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed for Life cycle operation granting |
| **Pre-conditions** | none |
| **Reference** | clause 9.4.2.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Put Grants  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Grants.robot/90e8a36/SOL003/VNFLifecycleOperationGranting-API>

##### 7.3.2.1.6 PATCH Grants - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.2.1.6 |
| **Test title** | PATCH Grants - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed for Life cycle operation granting |
| **Pre-conditions** | none |
| **Reference** | clause 9.4.2.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Patch Grants  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Grants.robot/90e8a36/SOL003/VNFLifecycleOperationGranting-API>

##### 7.3.2.1.7 DELETE Grants - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.2.1.7 |
| **Test title** | DELETE Grants - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed for Life cycle operation granting |
| **Pre-conditions** | none |
| **Reference** | clause 9.4.2.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Delete Grants  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Grants.robot/90e8a36/SOL003/VNFLifecycleOperationGranting-API>

#### 7.3.2.2 IndividualGrant

##### 7.3.2.2.1 POST Individual Grant - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.2.2.1 |
| **Test title** | POST Individual Grant - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed for Life cycle operation granting |
| **Pre-conditions** | none |
| **Reference** | clause 9.4.2.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post individual Grant  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualGrant.robot/90e8a36/SOL003/VNFLifecycleOperationGranting-API>

##### 7.3.2.2.2 GET an individual grant - Successful

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.2.2.2 |
| **Test title** | GET an individual grant - Successful |
| **Test objective** | The objective is to request a grant for a particular VNF lifecycle operation |
| **Pre-conditions** | The grant information is available to the VNFM |
| **Reference** | clause 9.4.3.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get individual grant success  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is grant | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualGrant.robot/90e8a36/SOL003/VNFLifecycleOperationGranting-API>

##### 7.3.2.2.3 GET an individual grant - Process ongoing

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.2.2.3 |
| **Test title** | GET an individual grant - Process ongoing |
| **Test objective** | The objective is to request a grant for a particular VNF lifecycle operation |
| **Pre-conditions** | The process of creating the grant is ongoing, no grant is available yet. |
| **Reference** | clause 9.4.3.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get individual grant on-going  Check HTTP Response Status Code Is 202 Check HTTP Response Body Json Schema Is grant | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualGrant.robot/90e8a36/SOL003/VNFLifecycleOperationGranting-API>

##### 7.3.2.2.4 GET an individual grant - grant rejected

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.2.2.4 |
| **Test title** | GET an individual grant - grant rejected |
| **Test objective** | The objective is to request a grant for a particular VNF lifecycle operation |
| **Pre-conditions** |  |
| **Reference** | clause 9.4.3.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | The grant is rejected |
| **Test Case** | |
| Get individual grant rejected  Check HTTP Response Status Code Is 403 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualGrant.robot/90e8a36/SOL003/VNFLifecycleOperationGranting-API>

##### 7.3.2.2.5 PUT an individual grant - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.2.2.5 |
| **Test title** | PUT an individual grant - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to for Life cycle operation granting |
| **Pre-conditions** | none |
| **Reference** | clause 9.4.3.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT individual Grant  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualGrant.robot/90e8a36/SOL003/VNFLifecycleOperationGranting-API>

##### 7.3.2.2.6 PATCH an individual grant - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.2.2.6 |
| **Test title** | PATCH an individual grant - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to for Life cycle operation granting |
| **Pre-conditions** | none |
| **Reference** | clause 9.4.3.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Patch individual Grant  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualGrant.robot/90e8a36/SOL003/VNFLifecycleOperationGranting-API>

##### 7.3.2.2.7 DELETE an individual grant - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.2.2.7 |
| **Test title** | DELETE an individual grant - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to for Life cycle operation granting |
| **Pre-conditions** | none |
| **Reference** | clause 9.4.3.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | grant not deleted |
| **Test Case** | |
| Delete individual Grant  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualGrant.robot/90e8a36/SOL003/VNFLifecycleOperationGranting-API>

### 7.3.3 VNF Package Management Interface

#### 7.3.3.1 VNFPackages

##### 7.3.3.1.1 GET all VNF Packages

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.1.1 |
| **Test title** | GET all VNF Packages |
| **Test objective** | The objective is to test the retrieval of all the available VNF packages information and perform a JSON schema and content validation of the collected data structure |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET all VNF Packages  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfPkgsInfo Check HTTP Response Body Does Not Contain softwareImages  Check HTTP Response Body Does Not Contain additionalArtifacts  Check HTTP Response Body Does Not Contain userDefinedData | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackages.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.1.2 GET VNF Packages with attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.1.2 |
| **Test title** | GET VNF Packages with attribute-based filter |
| **Test objective** | The objective is to test the retrieval of VNF packages using attribute-based filter, perform a JSON schema validation of the collected jobs data structure, and verify that the retrieved information matches the issued attribute-based filter |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF Packages with attribute-based filter  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfPkgsInfo Check HTTP Response Body VnfPkgsInfo Matches the requested attribute-based filter | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackages.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.1.3 GET VNF Packages with invalid attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.1.3 |
| **Test title** | GET VNF Packages with invalid attribute-based filter |
| **Test objective** | The objective is to test that the retrieval of VNF packages fails when using invalid attribute-based filter, and perform the JSON schema validation of the failed operation HTTP response |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF Packages with invalid attribute-based filter  Check HTTP Response Status Code Is 400 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackages.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.1.4 GET VNF Packages with "all\_fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.1.4 |
| **Test title** | GET VNF Packages with "all\_fields" attribute selector |
| **Test objective** | The objective is to test the retrieval of VNF packages with "all\_fields" attribute selector, perform a JSON schema validation of the collected data structure, and verify that the retrieved information matches the issued "all\_fileds" selector |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 4.3.3.2.1, 10.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF Packages with all\_fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfPkgsInfo Check HTTP Response Body vnfPkgsInfo Matches the requested all\_fields selector | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackages.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.1.5 GET VNF Packages with "exclude\_default" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.1.5 |
| **Test title** | GET VNF Packages with exclude\_default attribute selector |
| **Test objective** | The objective is to test the retrieval of VNF packages with "exclude\_default" attribute selector, perform a JSON schema validation of the collected data structure, and verify that the retrieved information matches the issued "exclude\_default" selector |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 4.3.3.2.1, 10.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF Packages with exclude\_default attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfPkgsInfo Check HTTP Response Body vnfPkgsInfo Matches the requested exclude\_default selector | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackages.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.1.6 GET VNF Packages with "fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.1.6 |
| **Test title** | GET VNF Packages with fields attribute selector |
| **Test objective** | The objective is to test the retrieval of VNF packages with "fields" attribute selector, perform a JSON schema validation of the collected data structure, and verify that the retrieved information matches the issued "fields" selector |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 4.3.3.2.1, 10.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The VNFM supports the use of fields attribute selector |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF Packages with fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfPkgsInfo Check HTTP Response Body vnfPkgsInfo Matches the requested fields selector | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackages.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.1.7 GET VNF Packages with "exclude\_fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.1.7 |
| **Test title** | GET VNF Packages with exclude\_fields attribute selector |
| **Test objective** | The objective is to test the retrieval of VNF packages with "exclude\_fields" attribute selector, perform a JSON schema validation of the collected data structure, and verify that the retrieved information matches the issued "exclude\_fields" selector |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 4.3.3.2.1, 10.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The VNFM supports the use of exclude\_fields attribute selector |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF Packages with exclude\_fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfPkgsInfo Check HTTP Response Body vnfPkgsInfo Matches the requested exclude\_fields selector | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackages.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.1.8 GET all VNF Packages with invalid resource endpoint

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.1.8 |
| **Test title** | GET VNF Packages with invalid resource endpoint |
| **Test objective** | The objective is to test that the retrieval of VNF packages fails when using invalid resource endpoint |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET all VNF Packages with invalid resource endpoint  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackages.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.1.9 POST all VNF Packages - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.1.9 |
| **Test title** | POST all VNF Packages - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create new VNF Packages |
| **Pre-conditions** | none |
| **Reference** | clause 10.4.2.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send POST Request for all VNF Packages  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackages.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.1.10 PUT all VNF Packages - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.1.10 |
| **Test title** | PUT all VNF Packages - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify existing VNF Packages |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.2.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PUT Request for all VNF Packages  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackages.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.1.11 PATCH all VNF Packages - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.1.11 |
| **Test title** | PATCH all VNF Packages - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to update existing VNF Packages |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.2.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PATCH Request for all VNF Packages  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackages.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.1.12 DELETE all VNF Packages - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.1.12 |
| **Test title** | DELETE all VNF Packages - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to delete existing VNF Packages |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.2.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | The VNF Packages are not deleted by the failed operation |
| **Test Case** | |
| Send DELETE Request for all VNF Packages  Check HTTP Response Status Code Is 405 Check Postcondition VNF Packages Exist | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackages.robot/90e8a36/SOL003/VNFPackageManagement-API>

#### 7.3.3.2 IndividualVNFPackage

##### 7.3.3.2.1 GET Individual VNF Package

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.2.1 |
| **Test title** | GET Individual VNF Package |
| **Test objective** | The objective is to test the retrieval of an individual VNF package information perform a JSON schema validation of the collected data structure |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.3.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual VNF Package  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfPkgInfo Check HTTP Response Body vnfPkgInfo Identifier matches the requested VNF Package | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.2.2 GET Individual VNF Package with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.2.2 |
| **Test title** | GET Individual VNF Package with invalid resource identifier |
| **Test objective** | The objective is to test that the retrieval of an individual VNF package fails when using an invalid resource identifier |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.3.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual VNF Package with invalid resource identifier  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.2.3 POST Individual VNF Package - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.2.3 |
| **Test title** | POST Individual VNF Package - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create new VNF Package |
| **Pre-conditions** | none |
| **Reference** | clause 10.4.3.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send POST Request for individual VNF Package  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.2.4 PUT Individual VNF Package - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.2.4 |
| **Test title** | PUT Individual VNF Package - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify a VNF Package |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.3.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PUT Request for individual VNF Package  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.2.5 PATCH Individual VNF Package - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.2.5 |
| **Test title** | PATCH Individual VNF Package - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to update a VNF Package |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.3.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PATCH Request for individual VNF Package  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.2.6 DELETE Individual VNF Package - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.2.6 |
| **Test title** | DELETE Individual VNF Package - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to delete a VNF Package |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.3.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | The VNF Package is not deleted by the failed operation |
| **Test Case** | |
| Send DELETE Request for individual VNF Package  Check HTTP Response Status Code Is 405 Check Postcondition VNF Package Exist | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

#### 7.3.3.3 VNFPackageContent

##### 7.3.3.3.1 GET Individual VNF Package Content

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.3.1 |
| **Test title** | GET Individual VNF Package Content |
| **Test objective** | The objective is to test the retrieval of an individual VNF package content and perform a validation that returned content is in zip format |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual VNF Package Content  Check HTTP Response Status Code Is 200 Check HTTP Response Header Content-Type Is application/zip | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageContent.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.3.2 GET Individual VNF Package Content with Range Request and NFVO supporting Range Requests

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.3.2 |
| **Test title** | GET Individual VNF Package Content with Range Request and NFVO supporting Range Requests |
| **Test objective** | The objective is to test the retrieval of an individual VNF package content when using a range request to return single range of bytes from the file, with the NFVO supporting it. The test also perform a validation that returned content matches the issued range |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The NFVO supports range requests to return single range of bytes from the VNF package file |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual VNF Package Content with Range Request  Check HTTP Response Status Code Is 206 Check HTTP Response Header Content-Type Is application/zip Check HTTP Response Header Content-Range Is Present and Matches the requested range  Check HTTP Response Header Content-Length Is Present and Matches the requested range length | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageContent.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.3.3 GET Individual VNF Package Content with Range Request and NFVO not supporting Range Requests

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.3.3 |
| **Test title** | GET Individual VNF Package Content with Range Request and NFVO not supporting Range Requests |
| **Test objective** | The objective is to test that the retrieval of an individual VNF package content, when using a range request to return single range of bytes from the file and the NFVO not supporting it, returns the full VNF Package file. |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The NFVO does not support range requests to return single range of bytes from the VNF package file |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual VNF Package Content with Range Request  Check HTTP Response Status Code Is 200 Check HTTP Response Header Content-Type Is application/zip | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageContent.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.3.4 GET Individual VNF Package Content with invalid Range Request

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.3.4 |
| **Test title** | GET Individual VNF Package Content with invalid Range Request |
| **Test objective** | The objective is to test that the retrieval of an individual VNF package content fails when using a range request that does not match any available byte range in the file. |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The NFVO supports range requests to return single range of bytes from the VNF package file |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual VNF Package Content with invalid Range Request  Check HTTP Response Status Code Is 416 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageContent.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.3.5 GET Individual VNF Package Content with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.3.5 |
| **Test title** | GET Individual VNF Package Content with invalid resource identifier |
| **Test objective** | The objective is to test that the retrieval of an individual VNF package content fails when using an invalid resource identifier |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual VNF Package Content with invalid resource identifier  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageContent.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.3.6 GET Individual VNF Package Content with conflict due to onboarding state

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.3.6 |
| **Test title** | GET Individual VNF Package Content with conflict due to onboarding state |
| **Test objective** | The objective is to test that the retrieval of an individual VNF package content fails due to a conflict when the VNF Package is not in onboarding state ONBOARDED in the NFVO. The test also performs a validation of the JSON schema validation of the failed operation HTTP response |
| **Pre-conditions** | The onboarding state of the VNF package for which the content is requested is different from ONBOARDED. |
| **Reference** | clause 10.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Content for VNF Package in onboarding state different from ONBOARDED  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageContent.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.3.7 POST Individual VNF Package Content - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.3.7 |
| **Test title** | POST Individual VNF Package Content - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create new VNF Package content |
| **Pre-conditions** | none |
| **Reference** | clause 10.4.3.5.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send POST Request for individual VNF Package Content  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageContent.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.3.8 PUT Individual VNF Package Content - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.3.8 |
| **Test title** | PUT Individual VNF Package Content - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify a VNF Package content |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.3.5.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PUT Request for individual VNF Package Content  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageContent.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.3.9 PATCH Individual VNF Package Content - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.3.9 |
| **Test title** | PATCH Individual VNF Package Content - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to update a VNF Package content |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.3.5.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PATCH Request for individual VNF Package Content  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageContent.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.3.10 DELETE Individual VNF Package Content - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.3.10 |
| **Test title** | DELETE Individual VNF Package Content - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to delete a VNF Package content |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.3.5.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | The VNF Package content is not deleted by the failed operation |
| **Test Case** | |
| Send DELETE Request for individual VNF Package Content  Check HTTP Response Status Code Is 405 Check Postcondition VNF Package Content Exist | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageContent.robot/90e8a36/SOL003/VNFPackageManagement-API>

#### 7.3.3.4 VNFDInIndividualVNFPackage

##### 7.3.3.4.1 Get single file VNFD in Individual VNF Package in Plain Format

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.4.1 |
| **Test title** | Get single file VNFD in Individual VNF Package in Plain Format |
| **Test objective** | The objective is to test the retrieval of the VNFD in plain format for an individual VNF package and perform a validation that returned content is in plain format |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The VNFD is implemented as a single file |
| **Post-Conditions** | none |
| **Test Case** | |
| Get single file VNFD in Individual VNF Package in Plain Format  Check HTTP Response Status Code Is 200 Check HTTP Response Header Content-Type Is text/plain | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFDInIndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.4.2 Get VNFD in Individual VNF Package in Zip Format

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.4.2 |
| **Test title** | Get VNFD in Individual VNF Package in Zip Format |
| **Test objective** | The objective is to test the retrieval of the VNFD in zip format for an individual VNF package and perform a validation that returned content is in zip format |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNFD in Individual VNF Package in Zip Format  Check HTTP Response Status Code Is 200 Check HTTP Response Header Content-Type Is application/zip | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFDInIndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.4.3 Get single file VNFD in Individual VNF Package in Plain or Zip Format

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.4.3 |
| **Test title** | Get single file VNFD in Individual VNF Package in Plain or Zip Format |
| **Test objective** | The objective is to test the retrieval of the single file VNFD for an individual VNF package when requesting Plain or Zip format to NFVO by including both formats in the request, and perform a validation that returned content is in Plain or Zip format |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The VNFD is implemented as a single file |
| **Post-Conditions** | none |
| **Test Case** | |
| Get single file VNFD in Individual VNF Package in Plain or Zip Format  Check HTTP Response Status Code Is 200 Check HTTP Response Header Content-Type Is Any of text/plain application/zip | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFDInIndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.4.4 Get multi file VNFD in Individual VNF Package in Plain or Zip Format

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.4.4 |
| **Test title** | Get multi file VNFD in Individual VNF Package in Plain or Zip Format |
| **Test objective** | The objective is to test the retrieval of the multi file VNFD for an individual VNF package when requesting Plain or Zip format to NFVO by including both formats in the request, and perform a validation that returned content is in Zip format |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The VNFD is implemented as a multi file |
| **Post-Conditions** | none |
| **Test Case** | |
| Get multi file VNFD in Individual VNF Package in Plain or Zip Format  Check HTTP Response Status Code Is 200 Check HTTP Response Header Content-Type Is application/zip | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFDInIndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.4.5 Get multi file VNFD in Individual VNF Package in Plain Format

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.4.5 |
| **Test title** | Get multi file VNFD in Individual VNF Package in Plain Format |
| **Test objective** | The objective is to test that the retrieval of the multi file VNFD for an individual VNF package fails when requesting it in Plain format, and perform a validation of the JSON schema validation of the failed operation HTTP response |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The VNFD is implemented as a multi file |
| **Post-Conditions** | none |
| **Test Case** | |
| Get multi file VNFD in Individual VNF Package in Plain Format  Check HTTP Response Status Code Is 406 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFDInIndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.4.6 Get VNFD in Individual VNF Package with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.4.6 |
| **Test title** | Get VNFD in Individual VNF Package with invalid resource identifier |
| **Test objective** | The objective is to test that the retrieval of the VNFD for an individual VNF package content fails when using an invalid resource identifier |
| **Pre-conditions** | none |
| **Reference** | clause 10.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNFD in Individual VNF Package with invalid resource identifier  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFDInIndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.4.7 Get VNFD in Individual VNF Package Content with conflict due to onboarding state

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.4.7 |
| **Test title** | Get VNFD in Individual VNF Package Content with conflict due to onboarding state |
| **Test objective** | The objective is to test that the retrieval of the VNFD for an individual VNF package content fails due to a conflict when the VNF Package is not in onboarding state ONBOARDED in the NFVO. The test also performs a validation of the JSON schema validation of the failed operation HTTP response |
| **Pre-conditions** | The onboarding state of the VNF package for which the VNFD is requested is different from ONBOARDED. |
| **Reference** | clause 10.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNFD in Individual VNF Package Content with conflict due to onboarding state  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFDInIndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.4.8 POST VNFD in Individual VNF Package Content - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.4.8 |
| **Test title** | POST VNFD in Individual VNF Package Content - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create new VNFD |
| **Pre-conditions** | none |
| **Reference** | clause 10.4.4.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send POST Request for VNFD in individual VNF Package  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFDInIndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.4.9 PUT VNFD in Individual VNF Package Content - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.4.9 |
| **Test title** | PUT VNFD in Individual VNF Package Content - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify a VNFD |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.4.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PUT Request for VNFD in individual VNF Package  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFDInIndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.4.10 PATCH VNFD in Individual VNF Package Content - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.4.10 |
| **Test title** | PATCH VNFD in Individual VNF Package Content - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to update a VNFD |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.4.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PATCH Request for VNFD in individual VNF Package  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFDInIndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.4.11 DELETE VNFD in Individual VNF Package Content - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.4.11 |
| **Test title** | DELETE VNFD in Individual VNF Package Content - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to delete a VNFD |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.4.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | The VNFD is not deleted by the failed operation |
| **Test Case** | |
| Send DELETE Request for VNFD in individual VNF Package  Check HTTP Response Status Code Is 405 Check Postcondition VNFD Exist | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFDInIndividualVNFPackage.robot/90e8a36/SOL003/VNFPackageManagement-API>

#### 7.3.3.5 VNFPackageArtifacts

##### 7.3.3.5.1 GET Individual VNF Package Artifact

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.5.1 |
| **Test title** | GET Individual VNF Package Artifact |
| **Test objective** | The objective is to test the retrieval of an individual VNF package artifact |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.6.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual VNF Package Artifact  Check HTTP Response Status Code Is 200 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageArtifacts.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.5.2 GET Individual VNF Package Artifact in octet stream format

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.5.2 |
| **Test title** | GET Individual VNF Package Artifact in octet stream format |
| **Test objective** | The objective is to test the retrieval of an individual VNF package artifact when the NFVO cannot determine the artifact content type. The test performs a validation that the returned artifcat in is octet-stream format |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.6.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The NFVO cannot determine the content type of the artifact |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual VNF Package Artifact in octet stream format  Check HTTP Response Status Code Is 200 Check HTTP Response Header Content-Type Is application/octet-stream | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageArtifacts.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.5.3 GET Individual VNF Package Artifact with Range Request and NFVO supporting Range Requests

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.5.3 |
| **Test title** | GET Individual VNF Package Artifact with Range Request and NFVO supporting Range Requests |
| **Test objective** | The objective is to test the retrieval of an individual VNF package artifact when using a range request to return single range of bytes from the file, with the NFVO supporting it. The test also perform a validation that returned content matches the issued range |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.6.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The NFVO supports range requests to return single range of bytes from the VNF package artifact |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual VNF Package Artifact with Range Request  Check HTTP Response Status Code Is 206 Check HTTP Response Header Content-Range Is Present and Matches the requested range  Check HTTP Response Header Content-Length Is Present and Matches the requested range length | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageArtifacts.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.5.4 GET Individual VNF Package Artifact with Range Request and NFVO not supporting Range Requests

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.5.4 |
| **Test title** | GET Individual VNF Package Artifact with Range Request and NFVO not supporting Range Requests |
| **Test objective** | The objective is to test that the retrieval of an individual VNF package artifact, when using a range request to return single range of bytes from the file and the NFVO not supporting it, returns the full VNF Package artifact. |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.6.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The NFVO does not support range requests to return single range of bytes from the VNF package artifact |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual VNF Package Artifact with Range Request  Check HTTP Response Status Code Is 200 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageArtifacts.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.5.5 GET Individual VNF Package Artifact with invalid Range Request

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.5.5 |
| **Test title** | GET Individual VNF Package Artifact with invalid Range Request |
| **Test objective** | The objective is to test that the retrieval of an individual VNF package artifact fails when using a range request that does not match any available byte range in the file. |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.6.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The NFVO supports range requests to return single range of bytes from the VNF package artifact |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual VNF Package Artifact with invalid Range Request  Check HTTP Response Status Code Is 416 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageArtifacts.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.5.6 GET Individual VNF Package Artifact with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.5.6 |
| **Test title** | GET Individual VNF Package Artifact with invalid resource identifier |
| **Test objective** | The objective is to test that the retrieval of an individual VNF package artifact fails when using an invalid resource identifier |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.6.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual VNF Package Artifact with invalid resource identifier  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageArtifacts.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.5.7 GET Individual VNF Package Artifact with conflict due to onboarding state

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.5.7 |
| **Test title** | GET Individual VNF Package Artifact with conflict due to onboarding state |
| **Test objective** | The objective is to test that the retrieval of an individual VNF package artifact fails due to a conflict when the VNF Package is not in onboarding state ONBOARDED in the NFVO. The test also performs a validation of the JSON schema validation of the failed operation HTTP response |
| **Pre-conditions** | The onboarding state of the VNF package for which the content is requested is different from ONBOARDED. |
| **Reference** | clause 10.4.6.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Artifact for VNF Package in onboarding state different from ONBOARDED  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageArtifacts.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.5.8 POST Individual VNF Package Artifact - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.5.8 |
| **Test title** | POST Individual VNF Package Artifact - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create new VNF Package artifact |
| **Pre-conditions** | none |
| **Reference** | clause 10.4.6.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send POST Request for individual VNF Package Artifact  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageArtifacts.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.5.9 PUT Individual VNF Package Artifact - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.5.9 |
| **Test title** | PUT Individual VNF Package Artifact - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify a VNF Package artifact |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.6.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PUT Request for individual VNF Package Artifact  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageArtifacts.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.5.10 PATCH Individual VNF Package Artifact - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.5.10 |
| **Test title** | PATCH Individual VNF Package Artifact - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to update a VNF Package artifact |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.6.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PATCH Request for individual VNF Package Artifact  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageArtifacts.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.5.11 DELETE Individual VNF Package Artifact - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.5.11 |
| **Test title** | DELETE Individual VNF Package Artifact - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to delete a VNF Package artifact |
| **Pre-conditions** | One or more VNF packages are onboarded in the NFVO. |
| **Reference** | clause 10.4.6.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | The VNF Package artifact is not deleted by the failed operation |
| **Test Case** | |
| Send DELETE Request for individual VNF Package Artifact  Check HTTP Response Status Code Is 405 Check Postcondition VNF Package Artifact Exist | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFPackageArtifacts.robot/90e8a36/SOL003/VNFPackageManagement-API>

#### 7.3.3.6 Subscriptions

##### 7.3.3.6.1 Get All VNF Package Subscriptions

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.6.1 |
| **Test title** | GET all VNF Package Subscriptions |
| **Test objective** | The objective is to test the retrieval of all VNF package subscriptions and perform a JSON schema validation of the returned subscriptions data structure |
| **Pre-conditions** | At least one VNF package subscription is available in the NFVO. |
| **Reference** | clause 10.4.7.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get all VNF Package Subscriptions  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is PkgmSubscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.6.2 Get VNF Package Subscriptions with attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.6.2 |
| **Test title** | Get VNF Package Subscriptions with attribute-based filter |
| **Test objective** | The objective is to test the retrieval of VNF package subscriptions using attribute-based filter, perform a JSON schema validation of the collected data structure, and verify that the retrieved information matches the issued attribute-based filters |
| **Pre-conditions** | At least one VNF package subscription is available in the NFVO. |
| **Reference** | clause 10.4.7.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF Package Subscriptions with attribute-based filters  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is PkgmSubscription Check HTTP Response Body Subscriptions Match the requested Attribute-Based Filter | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.6.3 Get VNF Package Subscriptions with invalid attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.6.3 |
| **Test title** | Get VNF Package Subscriptions with attribute-based filters |
| **Test objective** | The objective is to test that the retrieval of VNF package subscriptions fails when using invalid attribute-based filters, and perform the JSON schema validation of the failed operation HTTP response. |
| **Pre-conditions** | At least one VNF package subscription is available in the NFVO. |
| **Reference** | clause 10.4.7.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF Package Subscriptions with invalid attribute-based filters  Check HTTP Response Status Code Is 400 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.6.4 GET VNF Package Subscription with invalid resource endpoint

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.6.4 |
| **Test title** | GET VNF Package Subscription with invalid resource endpoint |
| **Test objective** | The objective is to test that the retrieval of all VNF package subscriptions fails when using invalid resource endpoint. |
| **Pre-conditions** | At least one VNF package subscription is available in the NFVO. |
| **Reference** | clause 10.4.7.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF Package Subscriptions with invalid resource endpoint  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.6.5 Create new VNF Package subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.6.5 |
| **Test title** | Create new VNF Package subscription |
| **Test objective** | The objective is to test the creation of a new VNF package subscription and perform a JSON schema and content validation of the returned subscription data structure |
| **Pre-conditions** | none |
| **Reference** | clause 10.4.7.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | The VNF package subscription is successfully set and it matches the issued subscription |
| **Test Case** | |
| Send Post Request for VNF Package Subscription  Check HTTP Response Status Code Is 201 Check HTTP Response Body Json Schema Is PkgmSubscription Check HTTP Response Body PkgmSubscription Attributes Values Match the Issued Subscription  Check Postcondition VNF Package Subscription Is Set | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.6.6 Create duplicated VNF Package subscription with NFVO not creating duplicated subscriptions

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.6.6 |
| **Test title** | Create duplicated VNF Package subscription with NFVO not creating duplicated subscriptions |
| **Test objective** | The objective is to test the attempt of a creation of a duplicated VNF package subscription and check that no new subscription is created by the NFVO and a link to the original subscription is returned |
| **Pre-conditions** | At least one VNF package subscription is available in the NFVO. |
| **Reference** | clause 10.4.7.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The NFVO does not support the creation of duplicated subscriptions |
| **Post-Conditions** | The existing VNF package subscription returned is available in the NFVO |
| **Test Case** | |
| Send Post Request for Duplicated VNF Package Subscription  Check HTTP Response Status Code Is 303 Check HTTP Response Body Is Empty  Check HTTP Response Header Contains Location Check Postcondition Subscription Resource Returned in Location Header Is Available | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.6.7 Create duplicated VNF Package subscription with NFVO creating duplicated subscriptions

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.6.7 |
| **Test title** | Create duplicated VNF Package subscription with NFVO creating duplicated subscriptions |
| **Test objective** | The objective is to test the creation of a duplicated VNF package subscription and perform a JSON schema and content validation of the returned duplicated subscription data structure |
| **Pre-conditions** | At least one VNF package subscription is available in the NFVO. |
| **Reference** | clause 10.4.7.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | The NFVO supports the creation of duplicated subscriptions |
| **Post-Conditions** | The duplicated VNF package subscription is successfully set and it matches the issued subscription |
| **Test Case** | |
| Send Post Request for Duplicated VNF Package Subscription  Check HTTP Response Status Code Is 201 Check HTTP Response Body Json Schema Is PkgmSubscription Check HTTP Response Body PkgmSubscription Attributes Values Match the Issued Subscription  Check Postcondition VNF Package Subscription Is Set | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.6.8 PUT VNF Package Subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.6.8 |
| **Test title** | PUT VNF Package Subscriptions - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify VNF package subscriptions |
| **Pre-conditions** | At least one VNF package subscription is available in the NFVO. |
| **Reference** | clause 10.4.7.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Put Request for VNF Package Subscriptions  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.6.9 PATCH VNF Package Subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.6.9 |
| **Test title** | PATCH VNF Package Subscriptions - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to update VNF package subscriptions |
| **Pre-conditions** | At least one VNF package subscription is available in the NFVO. |
| **Reference** | clause 10.4.7.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Patch Request for VNF Package Subscriptions  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.6.10 DELETE VNF Package Subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.6.10 |
| **Test title** | DELETE VNF Package Subscriptions - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to delete VNF package subscriptions |
| **Pre-conditions** | At least one VNF package subscription is available in the NFVO. |
| **Reference** | clause 10.4.7.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | The VNF package subscriptions are not deleted by the failed operation |
| **Test Case** | |
| Send Delete Request for VNF Package Subscriptions  Check HTTP Response Status Code Is 405 Check Postcondition VNF Package Subscriptions Exists | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFPackageManagement-API>

#### 7.3.3.7 IndividualSubscription

##### 7.3.3.7.1 GET Individual VNF Package Subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.7.1 |
| **Test title** | GET Individual VNF Package Subscription |
| **Test objective** | The objective is to test the retrieval of individual VNF package subscription and perform a JSON schema and content validation of the returned subscription data structure |
| **Pre-conditions** | At least one VNF package subscription is available in the NFVO. |
| **Reference** | clause 10.4.8.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get Individual VNF Package Subscription  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is PkgmSubscription Check HTTP Response Body Subscription Identifier matches the requested Subscription | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.7.2 GET Individual VNF Package Subscription with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.7.2 |
| **Test title** | GET Individual VNF Package Subscription with invalid resource identifier |
| **Test objective** | The objective is to test that the retrieval of an individual VNF package subscription fails when using an invalid resource identifier |
| **Pre-conditions** | At least one VNF package subscription is available in the NFVO. |
| **Reference** | clause 10.4.8.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET individual VNF Package Subscription with invalid resource identifier  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.7.3 DELETE Individual VNF Package Subscription with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.7.3 |
| **Test title** | DELETE Individual VNF Package Subscription with invalid resource identifier |
| **Test objective** | The objective is to test that the deletion of an individual VNF package subscription fails when using an invalid resource identifier |
| **Pre-conditions** | At least one VNF package subscription is available in the NFVO. |
| **Reference** | clause 10.4.8.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Delete request for individual VNF Package Subscription with invalid resource identifier  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.7.4 POST Individual VNF Package Subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.7.4 |
| **Test title** | POST Individual VNF Package Subscription - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create a new VNF Package Subscription |
| **Pre-conditions** | none |
| **Reference** | clause 10.4.8.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | The VNF Package Subscription is not created on the NFVO |
| **Test Case** | |
| Send Post request for individual VNF Package Subscription  Check HTTP Response Status Code Is 405 Check Postcondition VNF Package Subscription is not Created | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.7.5 PUT Individual VNF Package Subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.7.5 |
| **Test title** | PUT Individual VNF Package Subscription - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to update an existing VNF Package subscription |
| **Pre-conditions** | At least one VNF package subscription is available in the NFVO. |
| **Reference** | clause 10.4.8.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | The VNF Package subscription is not modified by the operation |
| **Test Case** | |
| Send Put request for individual VNF Package Subscription  Check HTTP Response Status Code Is 405 Check Postcondition VNF Package Subscription is Unmodified (Implicit) | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.7.6 PATCH Individual VNF Package Subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.7.6 |
| **Test title** | PATCH Individual VNF Package Subscription - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to modify an existing VNF Package subscription |
| **Pre-conditions** | At least one VNF package subscription is available in the NFVO. |
| **Reference** | clause 10.4.8.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | The VNF Package subscription is not modified by the operation |
| **Test Case** | |
| Send Patch request for individual VNF Package Subscription  Check HTTP Response Status Code Is 405 Check Postcondition VNF Package Subscription is Unmodified (Implicit) | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.7.7 DELETE Individual VNF Package Subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.7.7 |
| **Test title** | DELETE Individual VNF Package Subscription |
| **Test objective** | The objective is to test the deletion of an individual VNF package subscription |
| **Pre-conditions** | At least one VNF package subscription is available in the NFVO. |
| **Reference** | clause 10.4.8.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | The VNF Package Subscription is not available anymore in the NFVO |
| **Test Case** | |
| Send Delete request for individual VNF Package Subscription  Check HTTP Response Status Code Is 204 Check Postcondition VNF Package Subscription is Deleted | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFPackageManagement-API>

#### 7.3.3.8 PackageManagementNotification

##### 7.3.3.8.1 VNF Package Onboarding Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.8.1 |
| **Test title** | VNF Package Onboarding Notification |
| **Test objective** | The objective is to test the dispatch of VNF Package Onboarding notification when the VNF package onboarding operation is successfully completed, and perform a JSON schema and content validation of the delivered notification. The action that triggers the notification under test is an explicit test step, but it is not performed by the test system. |
| **Pre-conditions** | A VNF package subscription for onboarding notifications is available in the NFVO. |
| **Reference** | clause 10.4.9.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Trigger the completion of VNF Package Onboarding (external action)  Check Onboarding Notification Http POST Request Body Json Schema Is VnfPackageOnboardingNotification Check Onboarding Notification Http POST Request Body notificationType attribute Is VnfPackageOnboardingNotification | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PackageManagementNotification.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.8.2 VNF Package Operational State Change Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.8.2 |
| **Test title** | VNF Package Operational State Change Notification |
| **Test objective** | The objective is to test the dispatch of VNF Package Change notification when the VNF package operational state is modified, and perform a JSON schema and content validation of the delivered notification. The action that triggers the notification under test is an explicit test step, but it is not performed by the test system. |
| **Pre-conditions** | A VNF package subscription for change notifications is available in the NFVO. |
| **Reference** | clause 10.4.9.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Trigger the change of VNF Package Operational State (external action)  Check State Change Notification Http POST Request Body Json Schema Is VnfPackageChangeNotification Check State Change Notification Http POST Request Body notificationType attribute Is VnfPackageChangeNotification Check State Change Notification Http POST Request Body changeType attribute Is OP\_STATE\_CHANGE | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PackageManagementNotification.robot/90e8a36/SOL003/VNFPackageManagement-API>

##### 7.3.3.8.3 VNF Package Deletion Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.3.8.3 |
| **Test title** | VNF Package Deletion Notification |
| **Test objective** | The objective is to test the dispatch of VNF Package Change notification when the VNF package is deleted on the NFVO, and perform a JSON schema and content validation of the delivered notification. The action that triggers the notification under test is an explicit test step, but it is not performed by the test system. |
| **Pre-conditions** | A VNF package subscription for change notifications is available in the NFVO. |
| **Reference** | clause 10.4.9.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_NFVO |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Trigger the deletion of VNF Package (external action)  Check Deletion Notification Http POST Request Body Json Schema Is VnfPackageChangeNotification Check Deletion Notification Http POST Request Body notificationType attribute Is VnfPackageChangeNotification Check Deletion Notification Http POST Request Body changeType attribute Is PKG\_DELETE | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PackageManagementNotification.robot/90e8a36/SOL003/VNFPackageManagement-API>

### 7.3.4 VNF Performance Management Interface

#### 7.3.4.1 PMJobs

##### 7.3.4.1.1 GET all VNF Performance Monitoring Jobs

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.1.1 |
| **Test title** | GET all VNF Performance Monitoring Jobs |
| **Test objective** | The objective is to test the retrieval of all the available VNF performance monitoring jobs and perform a JSON schema and content validation of the collected jobs data structure |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNF. |
| **Reference** | clause 6.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET all VNF Performance Monitoring Jobs  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is PmJobs Check HTTP Response Body Does Not Contain reports | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.1.2 GET VNF Performance Monitoring Jobs with attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.1.2 |
| **Test title** | GET all VNF Performance Monitoring Jobs with attribute-based filter |
| **Test objective** | The objective is to test the retrieval of VNF performance monitoring jobs using attribute-based filter, perform a JSON schema validation of the collected jobs data structure, and verify that the retrieved information matches the issued attribute-based filter |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNF. |
| **Reference** | clause 6.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF Performance Monitoring Jobs with attribute-based filter  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is PmJobs Check HTTP Response Body PmJobs Matches the requested attribute-based filter | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.1.3 GET all VNF Performance Monitoring Jobs with all\_fields attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.1.3 |
| **Test title** | GET all VNF Performance Monitoring Jobs with all\_fields attribute selector |
| **Test objective** | The objective is to test the retrieval of all VNF performance monitoring jobs all\_fields attribute selector, perform a JSON schema validation of the collected jobs data structure, and verify that the retrieved information matches the issued all\_fileds selector |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNF. |
| **Reference** | clause 4.3.3.2.1, 6.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF Performance Monitoring Jobs with all\_fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is PmJobs Check HTTP Response Body PmJobs Matches the requested all\_fields selector | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.1.4 GET all VNF Performance Monitoring Jobs with exclude\_default attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.1.4 |
| **Test title** | GET all VNF Performance Monitoring Jobs with exclude\_default attribute selector |
| **Test objective** | The objective is to test the retrieval of all VNF performance monitoring jobs exclude\_default attribute selector, perform a JSON schema validation of the collected jobs data structure, and verify that the retrieved information matches the issued exclude\_default selector |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNF. |
| **Reference** | clause 4.3.3.2.1, 6.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF Performance Monitoring Jobs with exclude\_default attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is PmJobs Check HTTP Response Body PmJobs Matches the requested exclude\_default selector | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.1.5 GET all VNF Performance Monitoring Jobs with fields attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.1.5 |
| **Test title** | GET all VNF Performance Monitoring Jobs with fields attribute selector |
| **Test objective** | The objective is to test the retrieval of all VNF performance monitoring jobs fields attribute selector, perform a JSON schema validation of the collected jobs data structure, and verify that the retrieved information matches the issued fields selector |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNF. |
| **Reference** | clause 4.3.3.2.1, 6.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | The VNFM supports the use of exclude\_fields attribute selector |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF Performance Monitoring Jobs with fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is PmJobs Check HTTP Response Body PmJobs Matches the requested fields selector | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.1.6 GET all VNF Performance Monitoring Jobs with exclude\_fields attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.1.6 |
| **Test title** | GET all VNF Performance Monitoring Jobs with exclude\_fields attribute selector |
| **Test objective** | The objective is to test the retrieval of all VNF performance monitoring jobs exclude\_fields attribute selector, perform a JSON schema validation of the collected jobs data structure, and verify that the retrieved information matches the issued exclude\_fields selector |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNF. |
| **Reference** | clause 4.3.3.2.1, 6.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | The VNFM supports the use of exclude\_fields attribute selector |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF Performance Monitoring Jobs with exclude\_fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is PmJobs Check HTTP Response Body PmJobs Matches the requested exclude\_fields selector | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.1.7 GET VNF Performance Monitoring Jobs with invalid attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.1.7 |
| **Test title** | GET VNF Performance Monitoring Jobs with invalid attribute-based filter |
| **Test objective** | The objective is to test that the retrieval of VNF performance monitoring jobs fails when using invalid attribute-based filter, and perform the JSON schema validation of the failed operation HTTP response |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNF. |
| **Reference** | clause 6.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF Performance Monitoring Jobs with invalid attribute-based filter  Check HTTP Response Status Code Is 400 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.1.8 GET VNF Performance Monitoring Jobs with invalid resource endpoint

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.1.8 |
| **Test title** | GET VNF Performance Monitoring Jobs with invalid resource endpoint |
| **Test objective** | The objective is to test that the retrieval of VNF performance monitoring jobs fails when using invalid resource endpoint |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNF. |
| **Reference** | clause 6.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF Performance Monitoring Jobs with invalid resource endpoint  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.1.9 Create new VNF Performance Monitoring Job

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.1.9 |
| **Test title** | Create a new VNF Performance Monitoring Job |
| **Test objective** | The objective is to test the creation of a new VNF performance monitoring job and perform the JSON schema validation of the returned job data structure |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNF. |
| **Reference** | clause 6.4.2.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF Performance Job is successfully created on the VNFM |
| **Test Case** | |
| Send Post Request Create new VNF Performance Monitoring Job  Check HTTP Response Status Code Is 201 Check HTTP Response Body Json Schema Is PmJob Check Postcondition PmJob Exists | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.1.10 PUT all VNF Performance Monitoring Jobs - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.1.10 |
| **Test title** | PUT all VNF Performance Monitoring Jobs - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify VNF Performance Monitoring Jobs |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNF. |
| **Reference** | clause 6.4.2.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PUT Request for all VNF Performance Monitoring Jobs  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.1.11 PATCH all VNF Performance Monitoring Jobs - (Method not implemented)

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.1.11 |
| **Test title** | PATCH all VNF Performance Monitoring Jobs - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to update VNF Performance Monitoring Jobs |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNF. |
| **Reference** | clause 6.4.2.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PATCH Request for all VNF Performance Monitoring Jobs  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.1.12 DELETE all VNF Performance Monitoring Jobs - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.1.12 |
| **Test title** | DELETE all VNF Performance Monitoring Jobs - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to update VNF Performance Monitoring Jobs |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNF. |
| **Reference** | clause 6.4.2.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PATCH Request for all VNF Performance Monitoring Jobs  Check HTTP Response Status Code Is 405 Check Postcondition VNF Performance Monitoring Jobs Exist | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

#### 7.3.4.2 IndividualPmJob

##### 7.3.4.2.1 GET individual VNF Performance Job

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.2.1 |
| **Test title** | Get individual VNF Performance Job |
| **Test objective** | The objective is to test the retrieval of an individual VNF performance monitoring job and perform a JSON schema and content validation of the collected job data structure |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNFM. |
| **Reference** | clause 6.4.3.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET individual VNF Performance Job  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is PmJob Check HTTP Response Body Pm Job Identifier matches the requested Pm Job | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualPmJob.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.2.2 GET individual VNF Performance Job with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.2.2 |
| **Test title** | Get individual VNF Performance Job with invalid resource identifier |
| **Test objective** | The objective is to test that the retrieval of an individual VNF performance monitoring job fails when using an invalid resource identifier, and perform the JSON schema validation of the failed operation HTTP response |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNFM. |
| **Reference** | clause 6.4.3.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET individual VNF Performance Job with invalid resource identifier  Check HTTP Response Status Code Is 404 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualPmJob.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.2.3 DELETE Individual VNF Performance Job

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.2.3 |
| **Test title** | Delete Individual VNF Performance Job |
| **Test objective** | The objective is to test the deletion of an individual VNF performance monitoring job |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNFM. |
| **Reference** | clause 6.4.3.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF Performance Job is no more available in the VNFM |
| **Test Case** | |
| Send Delete request for individual VNF Performance Job  Check HTTP Response Status Code Is 204 Check Postcondition VNF Pm Job is Deleted | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualPmJob.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.2.4 DELETE Individual VNF Performance Job with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.2.4 |
| **Test title** | Delete individual VNF Performance Job with invalid resource identifier |
| **Test objective** | The objective is to test that the deletion of an individual VNF performance monitoring job fails when using an invalid resource identifier |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNFM. |
| **Reference** | clause 6.4.3.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Delete request for individual VNF Performance Job with invalid resource identifier  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualPmJob.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.2.5 POST Individual VNF Performance Job - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.2.5 |
| **Test title** | POST Individual VNF Performance Job - method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create a new VNF Performance Monitoring Job |
| **Pre-conditions** | A VNF instance is instantiated |
| **Reference** | clause 6.4.3.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF Performance Job is not created on the VNFM |
| **Test Case** | |
| Send Post request for individual VNF Performance Job  Check HTTP Response Status Code Is 405 Check Postcondition VNF Performance Job is not Created | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualPmJob.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.2.6 PUT Individual VNF Performance Job - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.2.6 |
| **Test title** | PUT Individual VNF Performance Job - method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to update an existing VNF Performance Monitoring Job |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNFM. |
| **Reference** | clause 6.4.3.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF Performance Job is not modified by the operation |
| **Test Case** | |
| Send Put request for individual VNF Performance Job  Check HTTP Response Status Code Is 405 Check Postcondition VNF Performance Job is Unmodified (Implicit) | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualPmJob.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.2.7 PATCH Individual VNF Performance Job - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.2.7 |
| **Test title** | PATCH Individual VNF Performance Job - method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to modify an existing new VNF Performance Monitoring Job |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNFM. |
| **Reference** | clause 6.4.3.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF Performance Job is not modified by the operation |
| **Test Case** | |
| Send Patch request for individual VNF Performance Job  Check HTTP Response Status Code Is 405 Check Postcondition VNF Performance Job is Unmodified (Implicit) | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualPmJob.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

#### 7.3.4.3 IndividualReport

##### 7.3.4.3.1 Get Individual Performance Report

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.3.1 |
| **Test title** | Get Individual Performance Report |
| **Test objective** | The objective is to test the retrieval of an individual VNF performance report associated to a monitoring job and perform a JSON schema validation of the collected report data structure |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance reports are set for a monitoring job in the VNFM. |
| **Reference** | clause 6.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get Individual Performance Report  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is PerformanceReport | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualReport.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.3.2 Get Individual Performance Report with invalid resource endpoint

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.3.2 |
| **Test title** | Get Individual Performance Report with invalid resource endpoint |
| **Test objective** | The objective is to test that the retrieval of an individual VNF performance report associated to a monitoring job fails when using an invalid resource endpoint |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance reports are set for a monitoring job in the VNFM. |
| **Reference** | clause 6.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get Individual Performance Report with invalid resource endpoint  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualReport.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.3.3 POST Individual Performance Report - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.3.3 |
| **Test title** | POST Individual Performance Report - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create a new VNF performance report within a monitoring job |
| **Pre-conditions** | A VNF instance is instantiated. |
| **Reference** | clause 6.4.4.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF performance report is not created on the VNFM |
| **Test Case** | |
| Send Post request for Individual Performance Report  Check HTTP Response Status Code Is 405 Check Postcondition VNF Individual Performance Report is not Created | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualReport.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.3.4 PUT Individual Performance Report - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.3.4 |
| **Test title** | PUT Individual Performance Report - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to update an existing VNF performance report within a monitoring job |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance reports are set for a monitoring job in the VNFM. |
| **Reference** | clause 6.4.4.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF performance report is not modified by the operation |
| **Test Case** | |
| Send Put request for Individual Performance Report  Check HTTP Response Status Code Is 405 Check Postcondition VNF Individual Performance Report is Unmodified (Implicit) | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualReport.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.3.5 PATCH Individual Performance Report - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.3.5 |
| **Test title** | PATCH Individual Performance Report - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to modify an existing VNF performance report within a monitoring job |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance reports are set for a monitoring job in the VNFM. |
| **Reference** | clause 6.4.4.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF performance report is not modified by the operation |
| **Test Case** | |
| Send Patch request for Individual Performance Report  Check HTTP Response Status Code Is 405 Check Postcondition VNF Individual Performance Report is Unmodified (Implicit) | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualReport.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.3.6 DELETE Individual Performance Report - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.3.6 |
| **Test title** | DELETE Individual Performance Report - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to delete an existing VNF performance report within a monitoring job |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance reports are set for a monitoring job in the VNFM. |
| **Reference** | clause 6.4.4.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF performance report is not deleted by the operation |
| **Test Case** | |
| Send Delete request for Individual Performance Report  Check HTTP Response Status Code Is 405 Check Postcondition VNF Individual Performance Report Exists | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualReport.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

#### 7.3.4.4 Thresholds

##### 7.3.4.4.1 GET All Performance Thresholds

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.4.1 |
| **Test title** | GET All Performance Thresholds |
| **Test objective** | The objective is to test the retrieval of all the available VNF performance thresholds and perform a JSON schema validation of the collected thresholds data structure |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance thresholds are set in the VNFM. |
| **Reference** | clause 6.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET all Performance Thresholds  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is Thresholds | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Thresholds.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.4.2 GET Performance Thresholds with attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.4.2 |
| **Test title** | GET Performance Thresholds with attribute-based filter |
| **Test objective** | The objective is to test the retrieval of all the available VNF performance thresholds when using attribute-based filters, perform a JSON schema validation of the collected thresholds data structure, and verify that the retrieved information matches the issued attribute-based filter |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance thresholds are set in the VNFM. |
| **Reference** | clause 6.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Performance Thresholds with attribute-based filter  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is Thresholds Check HTTP Response Body Thresholds match the requested attribute-based filter | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Thresholds.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.4.3 GET Performance Thresholds with invalid attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.4.3 |
| **Test title** | GET Performance Thresholds with invalid attribute-based filter |
| **Test objective** | The objective is to test that the retrieval of VNF performance thresholds fails when using invalid attribute-based filter, and perform the JSON schema validation of the failed operation HTTP response |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance thresholds are set in the VNFM. |
| **Reference** | clause 6.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Performance Thresholds with invalid attribute-based filter  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Thresholds.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.4.4 GET Performance Thresholds with invalid resource endpoint

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.4.4 |
| **Test title** | GET Performance Thresholds with invalid resource endpoint |
| **Test objective** | The objective is to test that the retrieval of VNF performance thresholds fails when using invalid resource endpoint, and perform the JSON schema validation of the failed operation HTTP response |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance thresholds are set in the VNFM. |
| **Reference** | clause 6.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF Performance Thresholds with invalid resource endpoint  Check HTTP Response Status Code Is 400 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Thresholds.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.4.5 Create new Performance Threshold

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.4.5 |
| **Test title** | Create new Performance Threshold |
| **Test objective** | The objective is to test the creation of a new VNF performance threshold and perform the JSON schema validation of the returned threshold data structure |
| **Pre-conditions** | A VNF instance is instantiated. |
| **Reference** | clause 6.4.5.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF Performance Threshold is successfully created on the VNFM |
| **Test Case** | |
| Send Post Request Create new Performance Threshold  Check HTTP Response Status Code Is 201 Check HTTP Response Body Json Schema Is Threshold Check HTTP Response Header Contains Location Check Postcondition Threshold Exists | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Thresholds.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.4.6 PUT Performance Thresholds - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.4.6 |
| **Test title** | PUT Performance Thresholds - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify VNF Performance Thresholds |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance thresholds are set in the VNF. |
| **Reference** | clause 6.4.5.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PUT Request for all Performance Thresholds  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Thresholds.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.4.7 PATCH Performance Thresholds - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.4.7 |
| **Test title** | PATCH Performance Thresholds - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to modify VNF Performance Thresholds |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance thresholds are set in the VNFM. |
| **Reference** | clause 6.4.5.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PATCH Request for all Performance Thresholds  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Thresholds.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.4.8 DELETE Performance Thresholds - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.4.8 |
| **Test title** | DELETE Performance Thresholds - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to update VNF Performance Thresholds |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance thresholds are set in the VNFM. |
| **Reference** | clause 6.4.5.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF performance thresholds are not deleted by the failed operation |
| **Test Case** | |
| Send DELETE Request for all Performance Thresholds  Check HTTP Response Status Code Is 405 Check Postcondition Thresholds Exist | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Thresholds.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

#### 7.3.4.5 IndividualThreshold

##### 7.3.4.5.1 GET Individual Threshold

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.5.1 |
| **Test title** | GET Individual Threshold |
| **Test objective** | The objective is to test the retrieval of an individual VNF performance threshold and perform a JSON schema and content validation of the collected threshold data structure |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance thresholds are set in the VNFM. |
| **Reference** | clause 6.4.6.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET individual VNF Performance Threshold  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is Threshold Check HTTP Response Body Threshold Identifier matches the requested Threshold | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualThreshold.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.5.2 GET Individual Threshold with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.5.2 |
| **Test title** | GET Individual Threshold with invalid resource identifier |
| **Test objective** | The objective is to test that the retrieval of an individual VNF performance threshold fails when using an invalid resource identifier |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNFM. |
| **Reference** | clause 6.4.6.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET individual VNF Performance Threshold with invalid resource identifier  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualThreshold.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.5.3 DELETE Individual Threshold

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.5.3 |
| **Test title** | DELETE Individual Threshold |
| **Test objective** | The objective is to test the deletion of an individual VNF performance threshold |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance thresholds are set in the VNFM. |
| **Reference** | clause 6.4.6.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF Performance Threshold is not available anymore in the VNFM |
| **Test Case** | |
| Send Delete request for individual VNF Performance Threshold  Check HTTP Response Status Code Is 204 Check Postcondition VNF Performance Threshold is Deleted | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualThreshold.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.5.4 DELETE Individual Threshold with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.5.4 |
| **Test title** | DELETE Individual Threshold with invalid resource identifier |
| **Test objective** | The objective is to test the deletion of an individual VNF performance threshold |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance thresholds are set in the VNFM. |
| **Reference** | clause 6.4.6.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Delete request for individual VNF Performance Threshold with invalid resource identifier  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualThreshold.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.5.5 POST Individual Threshold - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.5.5 |
| **Test title** | POST Individual Threshold - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create a new VNF Performance Threshold |
| **Pre-conditions** | A VNF instance is instantiated |
| **Reference** | clause 6.4.6.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF Performance Threshold is not created on the VNFM |
| **Test Case** | |
| Send Post request for individual VNF Performance Threshold  Check HTTP Response Status Code Is 405 Check Postcondition VNF Performance Threshold is not Created | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualThreshold.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.5.6 PUT Individual Threshold - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.5.6 |
| **Test title** | PUT Individual Threshold - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to update an existing VNF Performance threshold |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance thresholds are set in the VNFM. |
| **Reference** | clause 6.4.6.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF Performance Threshold is not modified by the operation |
| **Test Case** | |
| Send Put request for individual VNF Performance Threshold  Check HTTP Response Status Code Is 405 Check Postcondition VNF Performance Threshold is Unmodified (Implicit) | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualThreshold.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.5.7 PATCH Individual Threshold - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.5.7 |
| **Test title** | PATCH Individual Threshold - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to modify an existing VNF Performance threshold |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance thresholds are set in the VNFM. |
| **Reference** | clause 6.4.6.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF Performance Threshold is not modified by the operation |
| **Test Case** | |
| Send Patch request for individual VNF Performance Threshold  Check HTTP Response Status Code Is 405 Check Postcondition VNF Performance Threshold is Unmodified (Implicit) | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualThreshold.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

#### 7.3.4.8 PerformanceManagementNotification

##### 7.3.4.8.1 VNF Performance Information Availability Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.8.1 |
| **Test title** | VNF Performance Information Availability Notification |
| **Test objective** | The objective is to test the dispatch of VNF Performance Information Availability Notification when new VNF performance information is available in the NFVO, and perform a JSON schema and content validation of the delivered notification. The action that triggers the notification under test is an explicit test step, but it is not performed by the test system. |
| **Pre-conditions** | A VNF performance job is created, and a subscription for information availability notifications is available in the VNFM. |
| **Reference** | clause 6.4.9.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Trigger the availability of VNF Performance Information (external action)  Check Performance Information Available Notification Http POST Request Body Json Schema Is PerformanceInformationAvailableNotification Check Performance Information Available Notification Http POST Request Body notificationType attribute Is PerformanceInformationAvailableNotification | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PerformanceManagementNotification.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

##### 7.3.4.8.2 VNF Threshold Crossed Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.4.8.2 |
| **Test title** | VNF Threshold Crossed Notification |
| **Test objective** | The objective is to test the dispatch of VNF Threshold Crossed Notification when a previously set VNF performance metric threshold is crossed, and perform a JSON schema and content validation of the delivered notification. The action that triggers the notification under test is an explicit test step, but it is not performed by the test system. |
| **Pre-conditions** | A VNF performance job is created, and a threshold subscription is available in the VNFM. |
| **Reference** | clause 6.4.9.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Trigger the cross of VNF Performance Threshold (external action)  Check Threshold Crossed Notification Http POST Request Body Json Schema Is ThresholdCrossedNotification Check Threshold Crossed Notification Http POST Request Body notificationType attribute Is ThresholdCrossedNotification | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PerformanceManagementNotification.robot/90e8a36/SOL003/VNFPerformanceManagement-API>

### 7.3.5 VNF Fault Management interface

#### 7.3.5.1 Alarms

##### 7.3.5.1.1 POST Alarms - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.1.1 |
| **Test title** | POST Alarms - Method not implemented |
| **Test objective** | The objective is to test that Post method is not allowed to create Fault management alarms on VNF |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.2.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send POST request for fault management Alarms  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.1.2 Get information about multiple alarms

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.1.2 |
| **Test title** | Get information about multiple alarms |
| **Test objective** | The objective is to retrieve information about the alarm list and perform a JSON schema and content validation of the returned alarms data structure |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Fault Management Alarms  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is Alarms | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.1.3 Get information about multiple alarms with filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.1.3 |
| **Test title** | Get information about multiple alarms with filter |
| **Test objective** | The objective is to retrieve information about the alarm list and perform a JSON schema and content validation of the returned alarms data structure, and verify that the retrieved information matches the issued attribute-based filters |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Fault Management Alarms With Filters  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is Alarms | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.1.4 Get information about multiple alarms Bad Request Invalid attribute-based filtering parameters

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.1.4 |
| **Test title** | Get information about multiple alarms Bad Request Invalid attribute-based filtering parameters |
| **Test objective** | The objective is to try to retrieve information about the alarm list with invalid filters and perform a JSON schema and content validation of the returned problem details data structure |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Fault Management Alarms With Invalid Filters  Check HTTP Response Status Code Is 400 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.1.5 GET information about multiple alarms with "all\_fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.1.5 |
| **Test title** | GET information about multiple alarms with "all\_fields" attribute selector |
| **Test objective** | The objective is to retrieve information about the alarm list |
| **Pre-conditions** |  |
| **Reference** | clause 7.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| GET Alarms Task with all\_fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is alarms | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.1.6 GET information about multiple alarms with exclude\_default attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.1.6 |
| **Test title** | GET information about multiple alarms with "exclude\_default" attribute selector |
| **Test objective** | The objective is to retrieve information about the alarm list |
| **Pre-conditions** |  |
| **Reference** | clause 7.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| GET Alarms Task with exclude\_default attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is alarms | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.1.7 GET information about multiple alarms with fields attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.1.7 |
| **Test title** | GET information about multiple alarms with fields attribute selector |
| **Test objective** | The objective is to retrieve information about the alarm list |
| **Pre-conditions** |  |
| **Reference** | clause 7.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| GET Alarms Task with fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is alarms | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.1.8 GET information about multiple alarms with "exclude\_fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.1.8 |
| **Test title** | GET information about multiple alarms with "exclude\_fields" attribute selector |
| **Test objective** | The objective is to retrieve information about the alarm list |
| **Pre-conditions** |  |
| **Reference** | clause 7.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Alarms Task with exclude\_fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is alarms | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.1.9 PUT Alarms - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.1.9 |
| **Test title** | PUT Alarms - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to for Fault management alarms on VNF |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.2.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT Fault management Alarms  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.1.6 PATCH Alarms - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.1.6 |
| **Test title** | PATCH Alarms - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to for Fault management alarms on VNF |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.2.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH Fault management Alarms  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.1.7 DELETE Alarms - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.1.7 |
| **Test title** | POST Alarms - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed for Fault management alarms on VNF |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.2.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE Fault management Alarms  Check HTTP Response Status Code Is 405 Check Postcondition VNF fault management alarms Exists | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/90e8a36/SOL003/VNFFaultManagement-API>

#### 7.3.5.2 IndividualAlarm

##### 7.3.5.2.1 POST Alarm - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.2.1 |
| **Test title** | POST Alarm - Method not implemented |
| **Test objective** | The objective is to test that Post method is not allowed to create Fault management individual alarm on VNF |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.3.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send POST request for fault management Individual Alarm  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualAlarm.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.2.2 Get information about an fault management individual alarm

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.2.2 |
| **Test title** | Get information about an fault management individual alarm |
| **Test objective** | The objective is to retrieve information about an individual alarm and perform a JSON schema and content validation of the returned alarm data structure |
| **Pre-conditions** | The related alarm exists |
| **Reference** | clause 7.4.3.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Fault Management Individual Alarm  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is alarm | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualAlarm.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.2.3 PUT Alarm - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.2.3 |
| **Test title** | PUT Alarm - Method not implemented |
| **Test objective** | he objective is to test that PUT method is not allowed to for Fault management individual alarm on VNF |
| **Pre-conditions** | The related alarm exists |
| **Reference** | clause 7.4.3.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT Fault Management Individual Alarm  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualAlarm.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.2.4 PATCH Fault Management Individual Alarm

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.2.4 |
| **Test title** | PATCH Fault Management Individual Alarm |
| **Test objective** | The objective is to Modify an individual alarm resource and perform a JSON schema and content validation of the returned alarm data structure |
| **Pre-conditions** | The related alarm exists |
| **Reference** | clause 7.4.3.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Check Postcondition VNF fault management individual alarm Exists  PATCH Fault Management Individual Alarm  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is alarmModification | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualAlarm.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.2.5 Modify an individual alarm resource - Precondition failed

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.2.5 |
| **Test title** | Modify an individual alarm resource - Precondition failed |
| **Test objective** | The objective is to test that an individual alarm resource cannot be modified if the alarm is already in the state that is requested to be set |
| **Pre-conditions** | The related alarm exists |
| **Reference** | clause 7.4.3.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Check Postcondition VNF fault management individual alarm Exists  PATCH Fault Management Individual Alarm - precondition failed  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualAlarm.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.2.6 Modify an individual alarm resource - Conflict

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.2.6 |
| **Test title** | Modify an individual alarm resource - Conflict |
| **Test objective** | The objective is to test that an individual alarm resource cannot be modified if the resource was modified by another entity |
| **Pre-conditions** | The related alarm exists |
| **Reference** | clause 7.4.3.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Depends On Test PATCH Fault Management Individual Alarm Check Postcondition VNF fault management individual alarm Exists  PATCH Fault Management Individual Alarm Conflict  Check HTTP Response Status Code Is 412 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualAlarm.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.2.7 DELETE Alarm - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.2.7 |
| **Test title** | DELETE Alarm - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to for Fault management individual alarm on VNF |
| **Pre-conditions** | nona |
| **Reference** | clause 7.4.3.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The individual alarm still exists |
| **Test Case** | |
| DELETE Fault Management Individual Alarm  Check HTTP Response Status Code Is 405 Check Postcondition VNF fault management individual alarm Exists | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualAlarm.robot/90e8a36/SOL003/VNFFaultManagement-API>

#### 7.3.5.3 Subscriptions

##### 7.3.5.3.1 Create a new Fault Management alarm subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.3.1 |
| **Test title** | Create a new Fault Management alarm subscription |
| **Test objective** | The objective is to create a new Fault management alarm subscriptions and perform a JSON schema and content validation of the returned fault management alarms subscription data structure |
| **Pre-conditions** | No subscription with the same filter and callbackUri exists |
| **Reference** | clause 7.4.4.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | subscription is created |
| **Test Case** | |
| POST Subscription  Check HTTP Response Status Code Is 201 Check Operation Occurrence Id  Check HTTP Response Body Json Schema Is FmSubscription | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.3.2 Create a new alarm subscription - DUPLICATION

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.3.2 |
| **Test title** | Create a new alarm subscription - DUPLICATION |
| **Test objective** | The objective is to create a new subscription with the VNF allowing duplication and perform a JSON schema and content validation of the returned fault management alarms subscription data structure. |
| **Pre-conditions** | subscription with the same filter and callbackUri exists |
| **Reference** | clause 7.4.4.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | the NFVO allows creating a subscription resource if another subscription resource with the same filter and callbackUri already exists |
| **Post-Conditions** | duplicated subscription is created |
| **Test Case** | |
| POST Subscription Duplication permitted  Check HTTP Response Status Code Is 201 Check Operation Occurrence Id  Check HTTP Response Body Json Schema Is FmSubscription | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.3.3 Create a new alarm subscription - NO DUPLICATION

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.3.3 |
| **Test title** | Create a new alarm subscription - NO DUPLICATION |
| **Test objective** | The objective is to create a new subscription with the VNF not allowing duplication and perform a JSON schema and content validation of the returned fault management alarms subscription data structure. |
| **Pre-conditions** | subscription with the same filter and callbackUri exists |
| **Reference** | clause 7.4.4.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | the NFVO decides to not create a duplicate subscription resource |
| **Post-Conditions** | duplicated subscription is not created |
| **Test Case** | |
| POST Subscription Duplication not permitted  Check HTTP Response Status Code Is 303 Check Operation Occurrence Id  Check HTTP Response Body Json Schema Is FmSubscription | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.3.4 Retrieve a list of alarm subscriptions

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.3.4 |
| **Test title** | Retrieve a list of alarm subscriptions |
| **Test objective** | The objective is to retrieve the list of active subscriptions and perform a JSON schema and content validation of the returned fault management alarms subscription data structure. |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | noe |
| **Test Case** | |
| GET Subscriptions  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is FmSubscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.3.5 Retrieve a list of alarm subscriptions with filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.3.5 |
| **Test title** | Retrieve a list of alarm subscriptions with filter |
| **Test objective** | The objective is to retrieve the list of active subscriptions with filter and perform a JSON schema and content validation of the returned fault management alarms subscription data structure. |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Subscriptions with filter  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is FmSubscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.3.6 GET subscriptions - Bad Request Invalid attribute-based filtering parameters

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.3.6 |
| **Test title** | GET subscriptions - Bad Request Invalid attribute-based filtering parameters |
| **Test objective** | The objective is to retrieve the list of active subscriptions with Invalid attribute-based filtering parameters and perform a JSON schema and content validation of the returned problem details data structure. |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Subscriptions with Invalid filter  Check HTTP Response Status Code Is 400 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.3.7 GET subscriptions with "all\_fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.3.7 |
| **Test title** | GET subscriptions with "all\_fields" attribute selector |
| **Test objective** | The objective is to retrieve the list of active subscriptions with attribute selector |
| **Pre-conditions** |  |
| **Reference** | clause 7.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| Get subscriptions with all\_fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is FmSubscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.3.8 GET subscriptions with "exclude\_default" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.3.8 |
| **Test title** | GET subscriptions with "exclude\_default" attribute selector |
| **Test objective** | The objective is to retrieve the list of active subscriptions with attribute selector |
| **Pre-conditions** |  |
| **Reference** | clause 7.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| Get subscriptions with exclude\_default attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is FmSubscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.3.9 GET subscriptions with "fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.3.9 |
| **Test title** | GET subscriptions with "fields" attribute selector |
| **Test objective** | The objective is to retrieve the list of active subscriptions with attribute selector |
| **Pre-conditions** |  |
| **Reference** | clause 7.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| Get subscriptions with fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is FmSubscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.3.10 GET subscriptions with "exclude\_fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.3.10 |
| **Test title** | GET subscriptions with "exclude\_fields" attribute selector |
| **Test objective** | The objective is to retrieve the list of active subscriptions with attribute selector |
| **Pre-conditions** |  |
| **Reference** | clause 7.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| Get subscriptions with exclude\_fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is FmSubscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.3.11 PUT subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.3.11 |
| **Test title** | PUT subscriptions - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to for Fault management subscriptions on VNF |
| **Pre-conditions** | none |
| **RReference** | clause 7.4.4.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Put Subscriptions  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.3.12 PATCH subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.3.12 |
| **Test title** | PATCH subscriptions - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to for Fault management subscriptions on VNF |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.4.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH Subscriptions  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.3.13 DELETE subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.3.13 |
| **Test title** | DELETE subscriptions - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to for Fault management subscriptions on VNF |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.4.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | subscription is not deleted |
| **Test Case** | |
| DELETE Subscriptions  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFFaultManagement-API>

#### 7.3.5.4 IndividualSubscription

##### 7.3.5.4.1 Post Individual Subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.4.1 |
| **Test title** | Post Individual Subscription - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed for Fault management subscription on VNF |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.5.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | subscription is not created |
| **Test Case** | |
| POST Individual Subscription  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.4.2 Get Information about an individual subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.4.2 |
| **Test title** | Get Information about an individual subscription |
| **Test objective** | The objective is to read an individual subscription for NFVO alarms subscribed by the client and perform a JSON schema and content validation of the returned fault management individual subscription data structure |
| **Pre-conditions** | The subscription with the given id exists |
| **Reference** | clause 7.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual Subscription  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is FmSubscription | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.4.3 PUT an individual subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.4.3 |
| **Test title** | PUT an individual subscription - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed for Fault management individual subscription on VNF |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.5.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT Individual Subscription  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.4.4 PATCH an individual subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.4.4 |
| **Test title** | PATCH an individual subscription - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed for Fault management individual subscription on VNF |
| **Pre-conditions** | none |
| **Reference** | clause 7.4.5.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH Individual Subscription  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.4.5 DELETE an individual subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.4.5 |
| **Test title** | DELETE an individual subscription |
| **Test objective** | The objective is to test that DELETE method removes individual subscription on VNF |
| **Pre-conditions** | The Subsbcription already exists |
| **Reference** | clause 7.4.5.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | subscription is not deleted |
| **Test Case** | |
| DELETE Individual Subscription  Check HTTP Response Status Code Is 204 Check Individual Subscription deleted | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFFaultManagement-API>

#### 7.3.5.5 NotificationEndpoint

##### 7.3.5.5.1 VNF Fault Alarm Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.5.1 |
| **Test title** | VNF Fault Alarm Notification |
| **Test objective** | The objective is to test the dispatch of VNF Fault Alarm Notification when a virtualised resource within an VNF instance fails, and perform a JSON schema and content validation of the delivered notification. The action that triggers the notification under test is an explicit test step, but it is not performed by the test system. |
| **Pre-conditions** | A VNF instance is instantiated, and a subscription for fault alarm notifications is available in the VNFM. |
| **Reference** | clause 7.4.6.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Trigger the fault of a virtualised resource in the VNF instance (external action)  Check Alarm Notification Http POST Request Body Json Schema Is alarmNotification Check Alarm Notification Http POST Request Body notificationType attribute Is alarmNotification | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.5.2 VNF Fault Alarm Cleared Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.5.2 |
| **Test title** | VNF Fault Alarm Cleared Notification |
| **Test objective** | The objective is to test the dispatch of VNF Fault Alarm Cleared Notification when a faulty virtualised resource within an VNF instance is cleared, and perform a JSON schema and content validation of the delivered notification. The action that triggers the notification under test is an explicit test step, but it is not performed by the test system. |
| **Pre-conditions** | A VNF instance is instantiated, a virtualised resource is in faulty state, and a subscription for fault alarm cleared notifications is available in the VNFM. |
| **Reference** | clause 7.4.6.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Trigger the clear of a faulty virtualised resource in the VNF instance (external action)  Check Alarm cleared Notification Http POST Request Body Json Schema Is alarmClearedNotification Check Alarm cleared Notification Http POST Request Body notificationType attribute Is alarmClearedNotification | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/90e8a36/SOL003/VNFFaultManagement-API>

##### 7.3.5.5.3 VNF Fault Alarm List Rebuilt Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.5.5.3 |
| **Test title** | VNF Fault Alarm List Rebuilt Notification |
| **Test objective** | The objective is to test the dispatch of VNF Fault Alarm List Rebuilt Notification when the VNFM decides to rebuild the list of its VNF alarms, e.g. due to a corruption in the alarm storage, and perform a JSON schema and content validation of the delivered notification. The action that triggers the notification under test is an explicit test step, but it is not performed by the test system. |
| **Pre-conditions** | A VNF instance is instantiated, one or more virtualised resource are in faulty state, and a subscription for fault alarm list rebuilt notifications is available in the VNFM. |
| **Reference** | clause 7.4.6.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Trigger the VNF fault alarm list rebuild in the NFVO (external action)  Check Alarm list rebuilt Notification Http POST Request Body Json Schema Is alarmListRebuiltNotification Check Alarm list rebuilt Notification Http POST Request Body notificationType attribute Is alarmListRebuiltNotification | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/90e8a36/SOL003/VNFFaultManagement-API>

### 7.3.6 VNF Indicator Interface

#### 7.3.6.1 VNFIndicators

##### 7.3.6.1.1 Get all VNF Indicators

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.1.1 |
| **Test title** | Get all VNF Indicators |
| **Test objective** | The objective is to test the retrieval of all the available VNF indicators and perform a JSON schema validation of the collected indicators data structure |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM. |
| **Reference** | clause 8.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get all VNF indicators  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfIndicators | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFIndicators.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.1.2 Get VNF Indicators with attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.1.2 |
| **Test title** | Get VNF Indicators with attribute-based filter |
| **Test objective** | The objective is to test the retrieval of VNF indicators using attribute-based filter, perform a JSON schema validation of the collected indicators data structure, and verify that the retrieved information matches the issued attribute-based filters |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM. |
| **Reference** | clause 8.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF indicators with filter  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfIndicators Check HTTP Response Body vnfIndicators Matches the requested attribute-based filter | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFIndicators.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.1.3 Get VNF Indicators with invalid attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.1.3 |
| **Test title** | Get VNF Indicators with invalid attribute-based filter |
| **Test objective** | The objective is to test that the retrieval of VNF indicators fails when using invalid attribute-based filters, and perform the JSON schema validation of the failed operation HTTP response. |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM. |
| **Reference** | clause 8.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF indicators with invalid filter  Check HTTP Response Status Code Is 400 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFIndicators.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.1.4 Get all VNF Indicators with malformed authorization token

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.1.4 |
| **Test title** | Get all VNF Indicators with malformed authorization token |
| **Test objective** | The objective is to test that the retrieval of VNF indicators fails when using malformed authorization token |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM. |
| **Reference** | clause 4.5.3.3, 8.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | The VNFM requires the usage of access tokens for authorizing the API requests. |
| **Post-Conditions** | none |
| **Test Case** | |
| Get all VNF indicators with malformed authorization token  Check HTTP Response Status Code Is 400 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFIndicators.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.1.5 Get all VNF Indicators without authorization token

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.1.5 |
| **Test title** | Get all VNF Indicators without authorization token |
| **Test objective** | The objective is to test that the retrieval of VNF indicators fails when omitting the authorization token |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM. |
| **Reference** | clause 4.5.3.3, 8.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | The VNF requires the usage of access tokens for authorizing the API requests. |
| **Post-Conditions** | none |
| **Test Case** | |
| Get all VNF indicators without authorization token  Check HTTP Response Status Code Is 401 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFIndicators.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.1.6 GET all VNF Indicators with expired or revoked authorization token

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.1.6 |
| **Test title** | GET all VNF Indicators with expired or revoked authorization token |
| **Test objective** | The objective is to test that the retrieval of VNF indicators fails when using expired or revoked authorization token |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM. |
| **Reference** | clause 4.5.3.3, 8.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | The VNF requires the usage of access tokens for authorizing the API requests. |
| **Post-Conditions** | none |
| **Test Case** | |
| Get all VNF indicators with expired or revoked authorization token  Check HTTP Response Status Code Is 401 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFIndicators.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.1.7 Get all VNF Indicators with invalid resource endpoint

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.1.7 |
| **Test title** | Get all VNF Indicators with invalid resource endpoint |
| **Test objective** | The objective is to test that the retrieval of VNF indicators fails when using invalid resource endpoint |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM. |
| **Reference** | clause 8.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get all VNF indicators with invalid resource endpoint  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFIndicators.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.1.8 POST all VNF Indicators - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.1.8 |
| **Test title** | POST all VNF Indicators - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create new VNF indicators |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM |
| **Reference** | clause 8.4.2.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send POST Request for all VNF indicators  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFIndicators.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.1.9 PUT all VNF Indicators - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.1.9 |
| **Test title** | PUT all VNF Indicators - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify VNF indicators |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM |
| **Reference** | clause 8.4.2.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PUT Request for all VNF indicators  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFIndicators.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.1.10 PATCH all VNF Indicators - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.1.10 |
| **Test title** | PATCH all VNF Indicators - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to update VNF indicators |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNF |
| **Reference** | clause 8.4.2.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PATCH Request for all VNF indicators  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFIndicators.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.1.11 DELETE all VNF Indicators - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.1.11 |
| **Test title** | DELETE all VNF Indicators - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to delete VNF indicators |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNF |
| **Reference** | clause 8.4.2.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF indicators are not deleted by the unsuccessful operation |
| **Test Case** | |
| Send DELETE Request for all VNF indicators  Check HTTP Response Status Code Is 405 Check Postcondition VNF Indicators Exist | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFIndicators.robot/90e8a36/SOL003/VNFIndicator-API>

#### 7.3.6.2 VnfIndicatorsInVnfInstanceId

##### 7.3.6.2.1 Get Indicators for VNF Instance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.2.1 |
| **Test title** | Get Indicators for VNF Instance |
| **Test objective** | The objective is to test the retrieval of all indicators for a given VNF instance and perform a JSON schema validation of the returned indicators data structure |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM for the given VNF instance. |
| **Reference** | clause 8.4.3.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get all indicators for a VNF instance  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfIndicators Check HTTP Response Body Includes Requested VNF Instances ID | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfIndicatorsInVnfInstanceId.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.2.2 GET Indicators for VNF Instance with attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.2.2 |
| **Test title** | GET Indicators for VNF Instance with attribute-based filter |
| **Test objective** | The objective is to test the retrieval of all indicators for a given VNF instance using attribute-based filter and perform a JSON schema validation of the returned indicators data structure |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM for the given VNF instance. |
| **Reference** | clause 8.4.3.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get all indicators for a VNF instance with filter  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfIndicators Check HTTP Response Body vnfIndicators Matches the requested attribute-based filter | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfIndicatorsInVnfInstanceId.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.2.3 Get Indicators for VNF Instance with invalid attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.2.3 |
| **Test title** | Get Indicators for VNF Instance with invalid attribute-based filter |
| **Test objective** | The objective is to test that the retrieval of all indicators for a given VNF instance fails using invalid attribute-based filter. The test also checks the JSON schema of the unsuccessful operation HTTP response. |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM for the given VNF instance. |
| **Reference** | clause 8.4.3.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get all indicators for a VNF instance with invalid filter  Check HTTP Response Status Code Is 400 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfIndicatorsInVnfInstanceId.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.2.4 Get Indicators for VNF Instance with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.2.4 |
| **Test title** | Get Indicators for VNF Instance with invalid resource identifier |
| **Test objective** | The objective is to test that the retrieval of all indicators for a given VNF instance fails when using invalid resource identifier. The test also checks the JSON schema of the unsuccessful operation HTTP response. |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM for the given VNF instance. |
| **Reference** | clause 8.4.3.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get all indicators for a VNF instance with invalid resource identifier  Check HTTP Response Status Code Is 404 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfIndicatorsInVnfInstanceId.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.2.5 POST Indicators for VNF instance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.2.5 |
| **Test title** | POST Indicators for VNF instance - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create new indicators for a VNF instance |
| **Pre-conditions** | A VNF instance is instantiated. |
| **Reference** | clause 8.4.3.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send POST Request for indicators in VNF instance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfIndicatorsInVnfInstanceId.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.2.6 PUT Indicators for VNF instance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.2.6 |
| **Test title** | PUT Indicators for VNF instance - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify existing indicators for a VNF instance |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM for the given VNF instance. |
| **Reference** | clause 8.4.3.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PUT Request for indicators in VNF instance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfIndicatorsInVnfInstanceId.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.2.7 PATCH Indicators for VNF instance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.2.7 |
| **Test title** | PATCH Indicators for VNF instance - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to update existing indicators for a VNF instance |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM for the given VNF instance. |
| **Reference** | clause 8.4.3.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PATCH Request for indicators in VNF instance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfIndicatorsInVnfInstanceId.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.2.8 DELETE Indicators for VNF instance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.2.8 |
| **Test title** | DELETE Indicators for VNF instance - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to delete indicators for a VNF instance |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF indicators are available in the VNFM for the given VNF instance. |
| **Reference** | clause 8.4.3.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The indicators for the VNF instance are not deleted by the unsuccessful operation |
| **Test Case** | |
| Send DELETE Request for indicators in VNF instance  Check HTTP Response Status Code Is 405 Check Postcondition Indicators for VNF instance Exist | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfIndicatorsInVnfInstanceId.robot/90e8a36/SOL003/VNFIndicator-API>

#### 7.3.6.3 IndividualVNFindicator

##### 7.3.6.3.1 Get Individual Indicator for VNF Instance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.3.1 |
| **Test title** | Get Individual Indicator for VNF Instance |
| **Test objective** | The objective is to test the retrieval of an indicator for a given VNF instance and perform a JSON schema validation of the returned indicator data structure |
| **Pre-conditions** | A VNF instance is instantiated. At least one measure of VNF indicator is available in the VNFM. |
| **Reference** | clause 8.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get Individual Indicator for a VNF instance  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfIndicator Check HTTP Response Body Includes Requested VNF Instance ID  Check HTTP Response Body Includes Requested Indicator ID | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFindicator.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.3.2 Get Individual Indicator for VNF Instance with invalid indicator identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.3.2 |
| **Test title** | Get Individual Indicator for VNF Instance with invalid indicator identifier |
| **Test objective** | The objective is to test that the retrieval of an indicator for a given VNF instance fails when using an invalid resource identifier. The test also checks the JSON schema of the unsuccessful operation HTTP response. |
| **Pre-conditions** | A VNF instance is instantiated. At least one measure of VNF indicator is available in the VNFM. |
| **Reference** | clause 8.4.4.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get Individual Indicator for a VNF instance with invalid indicator identifier  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFindicator.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.3.3 POST Individual VNF Indicator for VNF Instance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.3.3 |
| **Test title** | POST Individual VNF Indicator for VNF Instance - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create a new VNF indicator in the VNFM |
| **Pre-conditions** | A VNF instance is instantiated. |
| **Reference** | clause 8.4.4.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send POST Request for individual indicator in VNF instance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFindicator.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.3.4 PUT Individual VNF Indicator for VNF Instance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.3.4 |
| **Test title** | PUT Individual VNF Indicator for VNF Instance - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify an existing indicator for a VNF instance |
| **Pre-conditions** | A VNF instance is instantiated. At least one measure of VNF indicator is available in the VNFM |
| **Reference** | clause 8.4.4.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PUT Request for individual indicator in VNF instance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFindicator.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.3.5 PATCH Individual VNF Indicator for VNF Instance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.3.5 |
| **Test title** | PATCH Individual VNF Indicator for VNF Instance - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to update an existing indicator for a VNF instance |
| **Pre-conditions** | A VNF instance is instantiated. At least one measure of VNF indicator is available for the given VNF instance. |
| **Reference** | clause 8.4.4.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PATCH Request for individual indicator in VNF instance  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFindicator.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.3.6 DELETE Individual VNF Indicator for VNF Instance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.3.6 |
| **Test title** | DELETE Individual VNF Indicator for VNF Instance - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to delete an existing indicator for a VNF instance |
| **Pre-conditions** | A VNF instance is instantiated. At least one measure of VNF indicator is available in the VNFM |
| **Reference** | clause 8.4.3.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The individual indicator for the VNF instance is not deleted by the unsuccessful operation |
| **Test Case** | |
| Send DELETE Request for individual indicator in VNF instance  Check HTTP Response Status Code Is 405 Check Postcondition Indicator for VNF instance Exist | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFindicator.robot/90e8a36/SOL003/VNFIndicator-API>

#### 7.3.6.4 Subscriptions

##### 7.3.6.4.1 GET All VNF Indicator Subscriptions

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.4.1 |
| **Test title** | GET All VNF Indicator Subscriptions |
| **Test objective** | The objective is to test the retrieval of all VNF indicator subscriptions and perform a JSON schema validation of the returned subscriptions data structure |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNFM. |
| **Reference** | clause 8.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get All VNF Indicators Subscriptions  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is VnfIndicatorSubscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.4.2 GET VNF Indicator Subscriptions with attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.4.2 |
| **Test title** | GET VNF Indicator Subscriptions with attribute-based filter |
| **Test objective** | The objective is to test the retrieval of VNF indicator subscriptions using attribute-based filter, perform a JSON schema validation of the collected indicators data structure, and verify that the retrieved information matches the issued attribute-based filters |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNFM. |
| **Reference** | clause 8.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF Indicators Subscriptions with filter  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is VnfIndicatorSubscriptions Check HTTP Response Body Subscriptions Match the requested Attribute-Based Filter | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.4.3 GET VNF Indicator Subscriptions with invalid attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.4.3 |
| **Test title** | GET VNF Indicator Subscriptions with invalid attribute-based filter |
| **Test objective** | The objective is to test that the retrieval of VNF indicator subscriptions fails when using invalid attribute-based filters, and perform the JSON schema validation of the failed operation HTTP response. |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNFM. |
| **Reference** | clause 8.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF Indicators Subscriptions with invalid filter  Check HTTP Response Status Code Is 400 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.4.4 GET VNF Indicator Subscriptions with invalid resource endpoint

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.4.4 |
| **Test title** | GET VNF Indicator Subscriptions with invalid resource endpoint |
| **Test objective** | The objective is to test that the retrieval of all VNF indicator subscriptions fails when using invalid resource endpoint. |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNFM. |
| **Reference** | clause 8.4.5.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF Indicators Subscriptions with invalid resource endpoint  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.4.5 Create new VNF indicator subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.4.5 |
| **Test title** | Create new VNF indicator subscription |
| **Test objective** | The objective is to test the creation of a new VNF indicator subscription and perform a JSON schema and content validation of the returned subscription data structure |
| **Pre-conditions** | A VNF instance is instantiated. |
| **Reference** | clause 8.4.5.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF indicator subscription is successfully set and it matches the issued subscription |
| **Test Case** | |
| Send Post Request for VNF Indicator Subscription  Check HTTP Response Status Code Is 201 Check HTTP Response Body Json Schema Is VnfIndicatorSubscription Check HTTP Response Body Matches the Subscription  Check Postcondition VNF Indicator Subscription Is Set | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.4.6 Create duplicated VNF indicator subscription with VNFM not creating duplicated subscriptions

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.4.6 |
| **Test title** | Create duplicated VNF indicator subscription with VNFM not creating duplicated subscriptions |
| **Test objective** | The objective is to test the attempt of a creation of a duplicated VNF indicator subscription and check that no new subscription is created by the VNFM and a link to the original subscription is returned |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNFM. |
| **Reference** | clause 8.4.5.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | The VNFM does not support the creation of duplicated subscriptions |
| **Post-Conditions** | The existing VNF indicator subscription returned is available in the VNFM |
| **Test Case** | |
| Send Post Request for Duplicated VNF indicator Subscription  Check HTTP Response Status Code Is 303 Check HTTP Response Body Is Empty  Check HTTP Response Header Contains Location Check Postcondition Subscription Resource Returned in Location Header Is Available | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.4.7 Create duplicated VNF indicator subscription with VNFM creating duplicated subscriptions

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.4.7 |
| **Test title** | Create duplicated VNF indicator subscription with VNFM creating duplicated subscriptions |
| **Test objective** | The objective is to test the creation of a duplicated VNF indicator subscription and perform a JSON schema and content validation of the returned duplicated subscription data structure |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNFM. |
| **Reference** | clause 8.4.5.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | The VNFM supports the creation of duplicated subscriptions |
| **Post-Conditions** | The duplicated VNF indicator subscription is successfully set and it matches the issued subscription |
| **Test Case** | |
| Send Post Request for Duplicated VNF indicator Subscription  Check HTTP Response Status Code Is 201 Check HTTP Response Body Json Schema Is PmSubscription Check HTTP Response Body Matches the Subscription  Check Postcondition VNF indicator Subscription Is Set | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFIndicator-API>

#### 7.3.6.5 PUT VNF Indicator Subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **TTest ID** | 7.3.6.4.8 |
| **Test title** | PUT VNF Indicator Subscriptions - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify VNF indicator subscriptions |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNFM. |
| **Reference** | clause 8.4.5.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Put Request for VNF Indicator Subscriptions  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.4.9 PATCH VNF Indicator Subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.4.9 |
| **Test title** | PATCH VNF Indicator Subscriptions - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to update VNF indicator subscriptions |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNFM. |
| **Reference** | clause 8.4.5.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Patch Request for VNF Indicator Subscriptions  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.4.10 DELETE VNF Indicator Subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.4.10 |
| **Test title** | DELETE VNF Indicator Subscriptions - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to delete VNF indicators subscriptions |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNFM. |
| **Reference** | clause 8.4.5.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The VNF indicator subscriptions are not deleted by the failed operation |
| **Test Case** | |
| Send Delete Request for VNF Indicator Subscriptions  Check HTTP Response Status Code Is 405 Check Postcondition VNF Indicator Subscriptions Exists | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VNFIndicator-API>

#### 7.3.6.5 IndividualSubscription

##### 7.3.6.5.1 GET Individual VNF Indicator Subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.5.1 |
| **Test title** | GET Individual VNF Indicator Subscription |
| **Test objective** | The objective is to test the retrieval of individual VNF indicator subscription and perform a JSON schema validation of the returned subscription data structure |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNFM. |
| **Reference** | clause 8.4.6.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get Individual VNF Indicator Subscription  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is VnfIndicatorSubscription | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.5.2 GET Individual VNF Indicator Subscription with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.5.2 |
| **Test title** | GET Individual VNF Indicator Subscription with invalid resource identifier |
| **Test objective** | The objective is to test that the retrieval of individual VNF indicator subscription fails when using an invalid resource identifier. |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNFM. |
| **Reference** | clause 8.4.6.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual VNF Indicator Subscription with invalid resource identifier  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.5.3 DELETE Individual VNF Indicator Subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.5.3 |
| **Test title** | DELETE Individual VNF Indicator Subscription |
| **Test objective** | The objective is to test the deletion of an individual VNF indicator subscription. |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNFM. |
| **Reference** | clause 8.4.6.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The subscription to VNF indicators is deleted |
| **Test Case** | |
| Send Delete Request for Individual VNF Indicator Subscription  Check HTTP Response Status Code Is 204 Check Postcondition Individual VNF Indicator Subscription is Deleted | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.5.4 DELETE Individual VNF Indicator Subscription with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.5.4 |
| **Test title** | DELETE Individual VNF Indicator Subscription with invalid resource identifier |
| **Test objective** | The objective is to test that the deletion of an individual VNF indicator subscription fails when using an invalid resource identifier. |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNFM. |
| **Reference** | clause 8.4.6.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Delete Request for Individual VNF Indicator Subscription with invalid resource identifier  Check HTTP Response Status Code Is 404 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.5.5 PUT Individual VNF Indicator Subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.5.5 |
| **Test title** | PUT Individual VNF Indicator Subscription - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify an individual VNF indicator subscription |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNFM. |
| **Reference** | clause 8.4.6.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The individual VNF indicator subscription is not modified by the operation |
| **Test Case** | |
| Send Put Request for Individual VNF Indicator Subscription  Check HTTP Response Status Code Is 405 Check Postcondition VNF indicator subscription Unmodified (Implicit) | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.5.6 PATCH Individual VNF Indicator Subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.5.6 |
| **Test title** | PATCH Individual VNF Indicator Subscription - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to update an individual VNF indicator subscription |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNFM. |
| **Reference** | clause 8.4.6.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The individual VNF indicator subscription is not modified by the operation |
| **Test Case** | |
| Send Patch Request for Individual VNF Indicator Subscription  Check HTTP Response Status Code Is 405 Check Postcondition VNF indicator subscription Unmodified (Implicit) | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFIndicator-API>

##### 7.3.6.5.7 POST Individual VNF Indicator Subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.5.7 |
| **Test title** | POST Individual VNF Indicator Subscription - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create a new VNF indicator subscription |
| **Pre-conditions** | A VNF instance is instantiated. |
| **Reference** | clause 8.4.6.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The individual VNF indicator subscription is not created by the operation |
| **Test Case** | |
| Send Post Request for Individual VNF Indicator Subscription  Check HTTP Response Status Code Is 405 Check Postcondition VNF indicator subscription is not created | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VNFIndicator-API>

#### 7.3.6.6 VnfIndicatorNotification

##### 7.3.6.6.1 VNF Indicator Value Change Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.6.6.1 |
| **Test title** | VNF Indicator Value Change Notification |
| **Test objective** | The objective is to test the dispatch of VNF Indicator Value Change Notification when new indicator values are available in the VNFM, and perform a JSON schema and content validation of the delivered notification. The action that triggers the notification under test is an explicit test step, but it is not performed by the test system. |
| **Pre-conditions** | A VNF is instantiated, and a subscription for indicator value change notifications is available in the VNFM. |
| **Reference** | clause 8.4.7.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Trigger the availability of new indicator value in the VNFM (external action)  Check Indicator Value Change Notification Http POST Request Body Json Schema Is VnfIndicatorValueChangeNotification Check Indicator Value Change Notification Http POST Request Body notificationType attribute Is VnfIndicatorValueChangeNotification | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfIndicatorNotification.robot/90e8a36/SOL003/VNFIndicator-API>

### 7.3.7 Virtualised Resources Quota Available Notification interface

#### 7.3.7.1 Subscriptions

##### 7.3.7.1.1 Create new Virtualised Resources Quota Available Notification subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.7.1.1 |
| **Test title** | Create new Virtualised Resources Quota Available Notification subscription |
| **Test objective** | The objective is to create a new Virtualised Resources Quota Available Notification subscription and perform a JSON schema and content validation of the returned subscription data structure |
| **Pre-conditions** | no subscription with the same filter and callbackUri exists |
| **Reference** | clause 11.4.2.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Post request for new Virtualised Resources Quota Available Notification subscription  Check HTTP Response Status Code Is 201 Check HTTP Response Header Contains Location Check HTTP Response Body Json Schema Is VrQuotaAvailSubscription | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VirtualisedResourcesQuotaAvailableNotification-API>

##### 7.3.7.1.2 Create new Virtualised Resources Quota Available Notification subscription - DUPLICATION

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.7.1.2 |
| **Test title** | Create new Virtualised Resources Quota Available Notification subscription - DUPLICATION |
| **Test objective** | The objective is to create a new Virtualised Resources Quota Available Notification subscription and perform a JSON schema and content validation of the returned duplicated subscription data structure |
| **Pre-conditions** | subscription with the same filter and callbackUri exists |
| **Reference** | clause 11.4.2.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | the VNFM allows creating a subscription resource if another subscription resource with the same filter and callbackUri already exists |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Post request for new Virtualised Resources Quota Available Notification subscription - DUPLICATION  Check HTTP Response Status Code Is 201 Check HTTP Response Header Contains Location Check HTTP Response Body Json Schema Is VrQuotaAvailSubscription | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VirtualisedResourcesQuotaAvailableNotification-API>

##### 7.3.7.1.3 Create new Virtualised Resources Quota Available Notification subscription - NO-DUPLICATION

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.7.1.3 |
| **Test title** | Create new Virtualised Resources Quota Available Notification subscription - NO-DUPLICATION |
| **Test objective** | The objective is to create a nduplicated Virtualised Resources Quota Available Notification subscription and verify that the VNF does not allow duplication |
| **Pre-conditions** | subscription with the same filter and callbackUri exists |
| **Reference** | clause 11.4.2.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | the VNFM decides to not create a duplicate subscription resource |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Post request for new Virtualised Resources Quota Available Notification subscription - NO-DUPLICATION  Check HTTP Response Status Code Is 303 Check HTTP Response Header Contains Location | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VirtualisedResourcesQuotaAvailableNotification-API>

##### 7.3.7.1.4 GET Virtualised Resources Quota Available Notification Subscriptions

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.7.1.4 |
| **Test title** | GET Virtualised Resources Quota Available Notification Subscriptions |
| **Test objective** | The objective is to retrieve the list of active Virtualised Resources Quota Available Notification subscriptions and perform a JSON schema and content validation of the returned subscriptions data structure |
| **Pre-conditions** | none |
| **Reference** | clause 11.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Virtualised Resources Quota Available Notification Subscriptions  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is subscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VirtualisedResourcesQuotaAvailableNotification-API>

##### 7.3.7.1.5 GET Virtualised Resources Quota Available Notification Subscriptions with attribute-based Filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.7.1.5 |
| **Test title** | GET Virtualised Resources Quota Available Notification Subscriptions with attribute-based Filter |
| **Test objective** | The objective is to retrieve the list of active Virtualised Resources Quota Available Notification subscriptions and perform a JSON schema and content validation of the returned subscriptions data structure, and verify that the retrieved information matches the issued attribute-based filters |
| **Pre-conditions** | none |
| **Reference** | clause 11.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Virtualised Resources Quota Available Notification Subscriptions with Filter  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is VrQuotaAvailSubscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VirtualisedResourcesQuotaAvailableNotification-API>

##### 7.3.7.1.6 GET Virtualised Resources Quota Available Notification subscriptions - Bad Request Invalid attribute-based filtering parameters

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.7.1.6 |
| **Test title** | GET Virtualised Resources Quota Available Notification subscriptions - Bad Request Invalid attribute-based filtering parameters |
| **Test objective** | The objective is to retrieve the list of active Virtualised Resources Quota Available Notification subscriptions with invalid attribute-based filtering parameters, and verify that problem details are returned |
| **Pre-conditions** | none |
| **Reference** | clause 11.4.2.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get Virtualised Resources Quota Available Notification subscriptions with Bad Request Invalid attribute-based filtering parameters  Check HTTP Response Status Code Is 400 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VirtualisedResourcesQuotaAvailableNotification-API>

##### 7.3.7.1.7 PUT Virtualised Resources Quota Available Notification subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.7.1.7 |
| **Test title** | PUT Virtualised Resources Quota Available Notification subscriptions - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to update existing Virtualised Resources Quota Available Notification subscriptions instance on VNF |
| **Pre-conditions** | A VNF instance is instantiated |
| **Reference** | clause 11.4.2.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Put request for Virtualised Resources Quota Available Notification subscription  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VirtualisedResourcesQuotaAvailableNotification-API>

##### 7.3.7.1.8 PATCH Virtualised Resources Quota Available Notification subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.7.1.8 |
| **Test title** | PATCH Virtualised Resources Quota Available Notification subscriptions - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to modify Virtualised Resources Quota Available Notification subscriptions instance on VNF |
| **Pre-conditions** | A VNF instance is instantiated |
| **Reference** | clause 11.4.2.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Patch request for Virtualised Resources Quota Available Notification subscription  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VirtualisedResourcesQuotaAvailableNotification-API>

##### 7.3.7.1.9 DELETE Virtualised Resources Quota Available Notification subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.7.1.9 |
| **Test title** | DELETE Virtualised Resources Quota Available Notification subscriptions - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to delete Virtualised Resources Quota Available Notification subscriptions instance on VNF |
| **Pre-conditions** | A VNF instance is instantiated |
| **Reference** | clause 11.4.2.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Delete request for Virtualised Resources Quota Available Notification subscription  Check HTTP Response Status Code Is 405 Check Postcondition VNF Virtualised Resources Quota Available Notification Subscriptions Exists | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/90e8a36/SOL003/VirtualisedResourcesQuotaAvailableNotification-API>

#### 7.3.7.2 IndividualSubscription

##### 7.3.7.2.1 Create new Virtualised Resources Quota Available Notification individual subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.7.2.1 |
| **Test title** | Create new Virtualised Resources Quota Available Notification individual subscription |
| **Test objective** | The objective is to test that POST method is not allowed to create a new Virtualised Resources Quota Available Notification individual subscription instance on VNF |
| **Pre-conditions** | A VNF instance is instantiated |
| **Reference** | clause 11.4.3.3.1 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Post request for Virtualised Resources Quota Available Notification Individual Subscription  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VirtualisedResourcesQuotaAvailableNotification-API>

##### 7.3.7.2.2 Get Information about an individual subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.7.2.2 |
| **Test title** | Get Information about an individual subscription |
| **Test objective** | The objective is to read an individual Virtualised Resources Quota Available Notification subscription subscribed by the client and perform a JSON schema and content validation of the returned individual subscription data structure |
| **Pre-conditions** | The subscription with the given id exists |
| **Reference** | clause 11.4.3.3.2 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get Virtualised Resources Quota Available Notification individual subscription  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is VrQuotaAvailSubscription | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VirtualisedResourcesQuotaAvailableNotification-API>

##### 7.3.7.2.3 PUT an individual subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.7.2.3 |
| **Test title** | PUT an individual subscription - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to update a existing Virtualised Resources Quota Available Notification individual subscription instance on VNF |
| **Pre-conditions** | A VNF instance is instantiated |
| **Reference** | clause 11.4.3.3.3 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Put Virtualised Resources Quota Available Notification individual Subscription  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VirtualisedResourcesQuotaAvailableNotification-API>

##### 7.3.7.2.4 PATCH an individual subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.7.2.4 |
| **Test title** | PATCH an individual subscription - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to modify a existing Virtualised Resources Quota Available Notification individual subscription instance on VNF |
| **Pre-conditions** | A VNF instance is instantiated |
| **Reference** | clause 11.4.3.3.4 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Patch Virtualised Resources Quota Available Notification individual subscription  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VirtualisedResourcesQuotaAvailableNotification-API>

##### 7.3.7.2.5 DELETE an individual subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 7.3.7.2.5 |
| **Test title** | DELETE an individual subscription |
| **Test objective** | The objective is to test that Delete method is allowed to remove a existing Virtualised Resources Quota Available Notification individual subscription instance on VNF |
| **Pre-conditions** | The subscription with the given id exists |
| **Reference** | clause 11.4.3.3.5 - ETSI GS NFV-SOL 003 [1] v2.4.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Delete Virtualised Resources Quota Available Notification individual subscription  Check HTTP Response Status Code Is 204 Check Postcondition VNF Virtualised Resources Quota Available Notification individual Subscriptions is Deleted | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/90e8a36/SOL003/VirtualisedResourcesQuotaAvailableNotification-API>