# Annex E: Word format presentation of the test suite for the Ve-Vnfm Reference Point

## E.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 E.2 to E.5 are therefore to be considered Void.

## E.6 Tabular test descriptions

### 6.3.1 VNF Configuration Interface

#### 6.3.1.1 Configuration

##### 6.3.1.1.1 Set new VNF Configuration

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.1.1 |
| **Test title** | Set a new VNF Configuration |
| **Test objective** | The objective is to test the creation of a new VNF configuration and perform a JSON schema validation of the returned configuration data structure |
| **Pre-conditions** | A VNF instance is instantiated |
| **Reference** | Clause 9.4.2.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation of HTTP Etag opaque identifiers |
| **Post-Conditions** | The configuration is successfully set in the VNF and it matches the issued configuration |
| **Test Case** | |
| Send VNF configuration  Check HTTP Response Status Code Is 200 Check HTTP Response Header Contains ETag Check HTTP Response Body Json Schema Is vnfConfigModifications Check Postcondition VNF Is Configured | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Configuration.robot/c2b872a/SOL002/VNFConfiguration-API>

##### 6.3.1.1.2 Get information about a VNF configuration

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.1.2 |
| **Test title** | Get information about a VNF configuration |
| **Test objective** | The objective is to test the retrieval of an existing VNF instance configuration and perform a JSON schema validation of the collected configuration data structure |
| **Pre-conditions** | A VNF instance is instantiated. The VNF instance is already configured. |
| **Reference** | Clause 9.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF configuration  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfConfiguration | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Configuration.robot/c2b872a/SOL002/VNFConfiguration-API>

##### 6.3.1.1.3 Get information about a VNF configuration with HTTP Etag

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.1.3 |
| **Test title** | Get information about a VNF configuration with HTTP Etag |
| **Test objective** | The objective is to test the retrieval of an existing VNF instance configuration, check the generation by the VNF of an HTTP Etag opaque identifier, and perform a JSON schema validation of the collected configuration data structure |
| **Pre-conditions** | A VNF instance is instantiated. The VNF instance is already configured |
| **Reference** | Clause 9.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation of HTTP Etag opaque identifiers |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF configuration  Check HTTP Response Status Code Is 200 Check HTTP Response Header Contains ETag Check HTTP Response Body Json Schema Is vnfConfiguration | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Configuration.robot/c2b872a/SOL002/VNFConfiguration-API>

##### 6.3.1.1.4 Set new VNF Configuration - HTTP Etag precondition unsuccessful

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.1.4 |
| **Test title** | Set a new VNF Configuration - HTTP Etag precondition unsuccessful |
| **Test objective** | The objective is to test the unsuccess in setting a duplication of VNF configuration identified by an already used HTTP Etag identifier. The test also checks the JSON schema of the unsuccessful operation HTTP response. |
| **Pre-conditions** | A VNF instance is instantiated. The VNF instance is already configured (Test ID 6.3.1.1.1) with a given HTTP Etag identifier. |
| **Reference** | Clause 9.4.2.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation of HTTP Etag opaque identifiers |
| **Post-Conditions** | The VNF configuration is not modified by the unsuccessful operation and it matches the configuration issued in Test ID 6.3.1.1.1 |
| **Test Case** | |
| Send Duplicated VNF configuration  Check HTTP Response Status Code Is 412 Check HTTP Response Body Json Schema Is ProblemDetails Check Postcondition VNF Configuration Unmodified (Implicit) | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Configuration.robot/c2b872a/SOL002/VNFConfiguration-API>

##### 6.3.1.1.5 POST VNF Configuration - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.1.5 |
| **Test title** | POST VNF Configuration - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create a new VNF configuration |
| **Pre-conditions** | none |
| **Reference** | Clause 9.4.2.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send POST Request for VNF Configuration  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Configuration.robot/c2b872a/SOL002/VNFConfiguration-API>

##### 6.3.1.1.6 PUT VNF Configuration - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.1.6 |
| **Test title** | PUT VNF Configuration - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify an existing VNF configuration |
| **Pre-conditions** | none |
| **Reference** | Clause 9.4.2.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PUT Request for VNF Configuration  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Configuration.robot/c2b872a/SOL002/VNFConfiguration-API>

##### 6.3.1.1.7 DELETE VNF Configuration - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.1.7 |
| **Test title** | Delete VNF Configuration - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to delete an existing VNF configuration |
| **Pre-conditions** | none |
| **Reference** | Clause 9.4.2.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send DELETE Request for VNF Configuration  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Configuration.robot/c2b872a/SOL002/VNFConfiguration-API>

#### 6.3.1.2 ApiVersion

##### 6.3.1.2.1 POST API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.2.1 |
| **Test title** | POST API version - Method not implemented |
| **Test objective** | The objective is to test that POST method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.1 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFConfiguration-API>

##### 6.3.1.2.2 GET API Version

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.2.2 |
| **Test title** | GET API Version |
| **Test objective** | The objective is to test that GET method successfully return ApiVersionInformation |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.2 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET API Version  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is ApiVersionInformation | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFConfiguration-API>

##### 6.3.1.2.3 PUT API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.2.3 |
| **Test title** | PUT API Version - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.3 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFConfiguration-API>

##### 6.3.1.2.4 PATCH API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.2.4 |
| **Test title** | PATCH API Version - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.4 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFConfiguration-API>

##### 6.3.1.2.5 DELETE API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.2.5 |
| **Test title** | DELETE API Version - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.5 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFConfiguration-API>

##### 6.3.1.2.6 POST API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.2.6 |
| **Test title** | POST API version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that POST method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.1 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFConfiguration-API>

##### 6.3.1.2.7 GET API Version with apiMajorVerion

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.2.7 |
| **Test title** | GET API Version with apiMajorVerion |
| **Test objective** | The objective is to test that GET method successfully return ApiVersionInformation |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.2 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET API Version  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is ApiVersionInformation | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFConfiguration-API>

##### 6.3.1.2.8 PUT API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.2.8 |
| **Test title** | PUT API Version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.3 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFConfiguration-API>

##### 6.3.1.2.9 PATCH API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.2.9 |
| **Test title** | PATCH API Version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.4 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFConfiguration-API>

##### 6.3.1.2.10 DELETE API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.1.2.10 |
| **Test title** | DELETE API Version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.5 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFConfiguration-API>

### 6.3.2 VNF Indicator Interface

#### 6.3.2.1 VNFIndicators

##### 6.3.2.1.1 Get all VNF Indicators

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.1.1 |
| **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 performance indicators are available in the VNF. |
| **Reference** | Clause 8.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.1.2 Get VNF Indicators with attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.1.2 |
| **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 performance indicators are available in the VNF. |
| **Reference** | Clause 8.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.1.3 Get VNF Indicators with invalid attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.1.3 |
| **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 performance indicators are available in the VNF. |
| **Reference** | Clause 8.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.1.4 Get all VNF Indicators with malformed authorization token

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.1.4 |
| **Test title** | GET all VNF Indicators with malformed authrization 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 performance indicators are available in the VNF. |
| **Reference** | Clause 4.5.3.3, 8.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. The VNF 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 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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.1.5 Get all VNF Indicators without authorization token

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.1.5 |
| **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 performance indicators are available in the VNF. |
| **Reference** | Clause 4.5.3.3, 8.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. 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 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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.1.6 GET all VNF Indicators with expired or revoked authorization token

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.1.6 |
| **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 performance indicators are available in the VNF. |
| **Reference** | Clause 4.5.3.3, 8.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. 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 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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.1.7 Get all VNF Indicators with invalid resource endpoint

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.1.7 |
| **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 performance indicators are available in the VNF. |
| **Reference** | Clause 8.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Get all VNF indicators with invalid resource endpoint  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/VNFIndicators.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.1.8 POST all VNF Indicators - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.1.8 |
| **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** | none |
| **Reference** | Clause 8.4.2.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.1.9 PUT all VNF Indicators - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.1.9 |
| **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** | none |
| **Reference** | Clause 8.4.2.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.1.10 PATCH all VNF Indicators - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.1.10 |
| **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** | none |
| **Reference** | Clause 8.4.2.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.1.11 DELETE all VNF Indicators - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.1.11 |
| **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** | none |
| **Reference** | Clause 8.4.2.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Send DELETE 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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.1.12 Get VNF Indicators to get Paged Response

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.1.12 |
| **Test title** | Get VNF Indicators to get Paged Response |
| **Test objective** | The objective is to test the retrieval of all the available VNF indicators with Paged Response. |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of VNF performance indicators are available in the VNF. |
| **Reference** | Clause 8.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Get all VNF indicators  Check HTTP Response Status Code Is 200 Check HTTP Response Header Contain Link | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFIndicators.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.1.13 Get VNF Indicators - Bad Request Response too Big

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.1.13 |
| **Test title** | Get VNF Indicators - Bad Request Response too Big |
| **Test objective** | The objective is to test that the retrieval of VNF indicators fails when response is too big, 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 performance indicators are available in the VNF. |
| **Reference** | Clause 8.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Get all VNF indicators  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/c2b872a/SOL002/VNFIndicator-API>

#### 6.3.2.2 VnfIndicatorsInVnfInstanceId

##### 6.3.2.2.1 Get Indicators for VNF Instance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.2.1 |
| **Test title** | Get all performance indicators for a VNF instance |
| **Test objective** | The objective is to test the retrieval of all performance 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 performance indicators are available for the given VNF instance. |
| **Reference** | Clause 8.4.3.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators |
| **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 Instance ID | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfIndicatorsInVnfInstanceId.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.2.2 GET Indicators for VNF Instance with attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.2.2 |
| **Test title** | Get all performance indicators for a VNF instance with attribute-based filter |
| **Test objective** | The objective is to test the retrieval of all performance 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 performance indicators are available for the given VNF instance. |
| **Reference** | Clause 8.4.3.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators |
| **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 Matches Attribute-Based Filter | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfIndicatorsInVnfInstanceId.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.2.3 Get Indicators for VNF Instance with invalid attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.2.3 |
| **Test title** | Get all performance indicators for a VNF instance with invalid attribute-based filter |
| **Test objective** | The objective is to test that the retrieval of all performance 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 performance indicators are available for the given VNF instance. |
| **Reference** | Clause 8.4.3.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.2.4 Get Indicators for VNF Instance with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.2.4 |
| **Test title** | Get all performance indicators for a VNF instance with invalid resource identifier |
| **Test objective** | The objective is to test that the retrieval of all performance 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 performance indicators are available for the given VNF instance. |
| **Reference** | Clause 8.4.3.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.2.5 POST Indicators for VNF instance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.2.5 |
| **Test title** | POST performance indicators for VNF instance - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create new performance indicators for a VNF instance |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.3.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.2.6 PUT Indicators for VNF instance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.2.6 |
| **Test title** | PUT performance indicators for VNF instance - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify existing performance indicators for a VNF instance |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.3.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.2.7 PATCH Indicators for VNF instance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.2.7 |
| **Test title** | PATCH performance indicators for VNF instance - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to update existing performance indicators for a VNF instance |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.3.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.2.8 DELETE Indicators for VNF instance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.2.8 |
| **Test title** | DELETE performance indicators for VNF instance - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to delete performance indicators for a VNF instance |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.3.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Send DELETE 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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.2.9 Get Indicators for VNF Instance to get Paged Response

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.2.9 |
| **Test title** | Get Indicators for VNF Instance to get Paged Response |
| **Test objective** | The objective is to test the retrieval of all performance indicators for a given VNF instance to get paged response. |
| **Pre-conditions** | A VNF instance is instantiated. One or more measures of performance indicators are available for the given VNF instance. |
| **Reference** | Clause 8.4.3.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators |
| **Post-Conditions** | none |
| **Test Case** | |
| Get all indicators for a VNF instance  Check HTTP Response Status Code Is 200 Check HTTP Response Header Contain Link | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfIndicatorsInVnfInstanceId.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.2.10 Get Indicators for VNF Instance - Bad Request Response too Big

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.2.10 |
| **Test title** | Get Indicators for VNF Instance - Bad Request Response too Big |
| **Test objective** | The objective is to test that the retrieval of all performance indicators for a given VNF instance fails when response is too big. 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 performance indicators are available for the given VNF instance. |
| **Reference** | Clause 8.4.3.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Get all indicators for a VNF instance  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/c2b872a/SOL002/VNFIndicator-API>

#### 6.3.2.3 IndividualVNFindicator

##### 6.3.2.3.1 Get Individual Indicator for VNF Instance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.3.1 |
| **Test title** | Get individual performance indicator for a VNF instance |
| **Test objective** | The objective is to test the retrieval of a performance 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 performance indicator is available for the given VNF instance. |
| **Reference** | Clause 8.4.4.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.3.2 Get Individual Indicator for VNF Instance with invalid indicator identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.3.2 |
| **Test title** | Get individual performance indicator for a VNF instance with invalid indicator identifier |
| **Test objective** | The objective is to test that the retrieval of a performance 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 performance indicator is available for the given VNF instance. |
| **Reference** | Clause 8.4.4.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Get Individual Indicator for a VNF instance with invalid indicator 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/IndividualVNFindicator.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.3.3 POST Individual VNF Indicator - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.3.3 |
| **Test title** | POST individual performance indicator for VNF instance - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create a new performance indicator for a VNF instance |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.4.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.3.4 PUT Individual VNF Indicator - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.3.4 |
| **Test title** | PUT individual performance indicator for VNF instance - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify an existing performance indicator for a VNF instance |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.4.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.3.5 PATCH Individual VNF Indicator - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.3.5 |
| **Test title** | PATCH individual performance indicator for VNF instance - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to update an existing performance indicator for a VNF instance |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.4.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.3.6 DELETE Individual VNF Indicator - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.3.6 |
| **Test title** | DELETE individual performance indicator indicators for VNF instance - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to delete an existing performance indicator for a VNF instance |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.3.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Send DELETE 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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.3.7 Get Individual Performance Indicator

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.3.7 |
| **Test title** | Get Individual Performance Indicator |
| **Test objective** | The objective is to test the retrieval of a performance indicator and perform a JSON schema validation of the returned indicator data structure |
| **Pre-conditions** | At least one measure of performance indicator is available.. |
| **Reference** | Clause 8.4.4.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators |
| **Post-Conditions** | none |
| **Test Case** | |
| Get Individual Indicator  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfIndicator 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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.3.8 Get Individual Performance Indicator with invalid indicator identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.3.8 |
| **Test title** | Get Individual Performance Indicator with invalid indicator identifier |
| **Test objective** | The objective is to test that the retrieval of a performance indicator fails when using an invalid resource identifier. The test also checks the JSON schema of the unsuccessful operation HTTP response. |
| **Pre-conditions** | At least one measure of performance indicator is available. |
| **Reference** | Clause 8.4.4.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Get Individual Indicator with invalid indicator 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/IndividualVNFindicator.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.3.9 POST Individual Performance Indicator - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.3.9 |
| **Test title** | POST Individual Performance Indicator - Method not implemented |
| **Test objective** | The objective is to test that POST method is not allowed to create a new performance indicator. |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.4.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Send POST Request for individual indicator  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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.3.10 PUT Individual Performance Indicator - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.3.10 |
| **Test title** | PUT Individual Performance Indicator - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not allowed to modify an existing performance indicator. |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.4.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PUT Request for individual indicator  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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.3.11 PATCH Individual Performance Indicator - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.3.11 |
| **Test title** | PATCH Individual Performance Indicator - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not allowed to update an existing performance indicator. |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.4.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Send PATCH Request for individual indicator  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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.3.12 DELETE Individual Performance Indicator - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.3.12 |
| **Test title** | DELETE Individual Performance Indicator - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not allowed to delete an existing performance indicator. |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.3.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Send DELETE Request for individual indicator  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/c2b872a/SOL002/VNFIndicator-API>

#### 6.3.2.4 Subscriptions

##### 6.3.2.4.1 GET VNF Indicators Subscriptions

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.4.1 |
| **Test title** | GET VNF Indicators Subscriptions |
| **Test objective** | The objective is to test the retrieval of all VNF indicators 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 VNF. |
| **Reference** | Clause 8.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of indicators |
| **Post-Conditions** | none |
| **Test Case** | |
| Get 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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.4.2 GET VNF Indicators Subscriptions with attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.4.2 |
| **Test title** | GET VNF Indicators Subscriptions with attribute-based filter |
| **Test objective** | The objective is to test the retrieval of all VNF indicators subscriptions using attribute-based filter and perform a JSON schema and content validation of the returned subscriptions data structure |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNF. |
| **Reference** | Clause 8.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of indicators |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.4.3 GET VNF Indicators Subscriptions with invalid attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.4.3 |
| **Test title** | GET VNF Indicators Subscriptions with invalid attribute-based filter |
| **Test objective** | The objective is to test that the retrieval of all VNF indicators subscriptions fails when 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. At least one VNF indicator subscription is available in the VNF. |
| **Reference** | Clause 8.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of indicators |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.4.4 GET VNF Indicators Subscriptions with invalid resource endpoint

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.4.4 |
| **Test title** | GET VNF Indicators Subscriptions with invalid resource endpoint |
| **Test objective** | The objective is to test that the retrieval of all VNF indicators subscriptions fails when using invalid resource endpoint. |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNF. |
| **Reference** | Clause 8.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF Indicators Subscriptions with invalid resource endpoint  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/Subscriptions.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.4.5 Create new VNF indicator subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.4.5 |
| **Test title** | Create new VNF indicator subscription |
| **Test objective** | The objective is to test the creation of a new VNF indicator subscription perform a JSON schema and content validation of the returned subscriptions data structure |
| **Pre-conditions** | A VNF instance is instantiated. |
| **Reference** | Clause 8.4.5.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.4.6 PUT VNF Indicator Subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.4.6 |
| **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** | none |
| **Reference** | Clause 8.4.5.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.4.7 PATCH VNF Indicator Subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.4.7 |
| **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** | none |
| **Reference** | Clause 8.4.5.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of indicators. |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.4.8 DELETE VNF Indicator Subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.4.8 |
| **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 indicator subscriptions |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.5.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Delete 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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.4.9 GET VNF Indicators Subscriptions to get Paged Response

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.4.9 |
| **Test title** | GET VNF Indicators Subscriptions to get Paged Response |
| **Test objective** | The objective is to test the retrieval of all VNF indicators subscriptions to get Paged Response. |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNF. |
| **Reference** | Clause 8.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of indicators |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF Indicators Subscriptions  Check HTTP Response Status Code Is 200 Check HTTP Response Header Contain Link | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.4.10 GET VNF Indicators Subscriptions - Bad Request Response too Big

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.4.10 |
| **Test title** | GET VNF Indicators Subscriptions - Bad Request Response too Big |
| **Test objective** | The objective is to test that the retrieval of all VNF indicators subscriptions fails because response is too big. The test also checks the JSON schema of the unsuccessful operation HTTP response. |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNF. |
| **Reference** | Clause 8.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of indicators |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF Indicators Subscriptions  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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.4.11 POST Create a new Subscription - Unprocessable Entity

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.4.11 |
| **Test title** | POST Create a new Subscription - Unprocessable Entity |
| **Test objective** | The objective is to test that content type of the payload body is supported and the payload body of a request contains syntactically correct data but the data cannot be processed. |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.5.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Post Request for VNF Indicator Subscription with unprocessable entity  Check HTTP Response Status Code Is 422 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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.4.12 Create new VNF indicator Subscription - DUPLICATION

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.4.12 |
| **Test title** | POST Create a new subscription - DUPLICATION |
| **Test objective** | The POST method creates a new subscription even if an existing subscription to same content exist |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.5.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | SUT should support duplication of subscription creation |
| **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 VnfIndicatorSubscription Check Operation Occurrence Id | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.4.13 Create new VNF indicator Subscription - NO-DUPLICATION

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.4.13 |
| **Test title** | POST Create a new subscription - NO-DUPLICATION |
| **Test objective** | The POST method creates a new subscription even if an existing subscription to same content exist |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.5.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | SUT should not support duplication of subscription creation |
| **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 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFIndicator-API>

#### 6.3.2.5 IndividualSubscription

##### 6.3.2.5.1 GET Individual VNF Indicator Subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.5.1 |
| **Test title** | Get individual subscription to VNF performance indicators |
| **Test objective** | The objective is to test the retrieval of individual VNF performance 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 VNF. |
| **Reference** | Clause 8.4.6.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators |
| **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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.5.2 GET Individual VNF Indicator Subscription with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.5.2 |
| **Test title** | Get individual subscription to VNF performance indicators |
| **Test objective** | The objective is to test that the retrieval of individual VNF performance indicator subscription 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 VNF indicator subscription is available in the VNF. |
| **Reference** | Clause 8.4.6.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Individual VNF Indicator Subscription 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/IndividualSubscription.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.5.3 DELETE Individual VNF Indicator Subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.5.3 |
| **Test title** | Delete individual subscription to VNF performance indicators |
| **Test objective** | The objective is to test the deletion of an individual VNF performance indicator subscription. |
| **Pre-conditions** | A VNF instance is instantiated. At least one VNF indicator subscription is available in the VNF. |
| **Reference** | clause 8.4.6.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators |
| **Post-Conditions** | The subscription to VNF performance 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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.5.4 DELETE Individual VNF Indicator Subscription with invalid resource identifier

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.5.4 |
| **Test title** | Delete individual subscription to VNF performance indicators |
| **Test objective** | The objective is to test that the deletion of an individual VNF performance indicator subscription 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 VNF indicator subscription is available in the VNF. |
| **Reference** | clause 8.4.6.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Delete Request for Individual VNF Indicator Subscription 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/IndividualSubscription.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.5.5 PUT Individual VNF Indicator Subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.5.5 |
| **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 performance indicator subscription |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.6.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Put Request for Individual VNF Indicator 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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.5.6 PATCH Individual VNF Indicator Subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.5.6 |
| **Test title** | PUT 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 performance indicator subscription |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.6.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Patch Request for Individual VNF Indicator 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/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.5.7 POST Individual VNF Indicator Subscription - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.5.7 |
| **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 performance indicator subscription |
| **Pre-conditions** | none |
| **Reference** | Clause 8.4.6.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | The VNF supports the generation and maintenance of performance indicators. |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Post Request for Individual VNF Indicator 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/c2b872a/SOL002/VNFIndicator-API>

#### 6.3.2.6 Notifications

##### 6.3.2.6.1 VNF Indicator Value Change Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.6.1 |
| **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 VNF, 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 VNF. |
| **Reference** | Clause 8.4.7.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNF |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Trigger the availability of new indicator value in the VNF (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/Notifications.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.6.2 Supported Indicators Change Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.6.2 |
| **Test title** | Supported Indicators Change Notification |
| **Test objective** | The objective is to test the dispatch of Supported Indicators Change Notification when new indicator values are available in the VNF, 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 supported indicators change notifications is available in the VNF. |
| **Reference** | Clause 8.4.7.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNF |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Trigger the availability of new indicator value in the VNF (external action)  Check Indicator Value Change Notification Http POST Request Body Json Schema Is SupportedIndicatorsChangeNotification Check Indicator Value Change Notification Http POST Request Body notificationType attribute Is SupportedIndicatorsChangeNotification | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Notifications.robot/c2b872a/SOL002/VNFIndicator-API>

#### 6.3.2.7 ApiVersion

##### 6.3.2.7.1 POST API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.7.1 |
| **Test title** | POST API version - Method not implemented |
| **Test objective** | The objective is to test that POST method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.1 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.7.2 GET API Version

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.7.2 |
| **Test title** | GET API Version |
| **Test objective** | The objective is to test that GET method successfully return ApiVersionInformation |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.2 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET API Version  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is ApiVersionInformation | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.7.3 PUT API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.7.3 |
| **Test title** | PUT API Version - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.3 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.7.4 PATCH API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.7.4 |
| **Test title** | PATCH API Version - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.4 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.7.5 DELETE API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.7.5 |
| **Test title** | DELETE API Version - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.5 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.7.6 POST API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.7.6 |
| **Test title** | POST API version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that POST method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.1 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.7.7 GET API Version with apiMajorVerion

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.7.7 |
| **Test title** | GET API Version with apiMajorVerion |
| **Test objective** | The objective is to test that GET method successfully return ApiVersionInformation |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.2 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET API Version  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is ApiVersionInformation | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.7.8 PUT API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.7.8 |
| **Test title** | PUT API Version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.3 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.7.9 PATCH API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.7.9 |
| **Test title** | PATCH API Version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.4 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.7.10 DELETE API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.7.10 |
| **Test title** | DELETE API Version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.5 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFIndicator-API>

#### 6.3.3.8 NotificationEndpoint

##### 6.3.2.8.1 VNF Indicator Value Change Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.8.1 |
| **Test title** | VNF Indicator Value Change Notification |
| **Test objective** | The objective is to test that the POST request triggers VNF Indicator Value Change Notification . |
| **Pre-conditions** | A VNF is instantiated, and a subscription for indicator value change notifications is available in the VNF. |
| **Reference** | Clause 8.4.7.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_Notif\_Endpoint |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Value Change Notification  Check HTTP Response Status Code Is 204 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.8.2 Supported Indicators Change Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.8.2 |
| **Test title** | Supported Indicators Change Notification |
| **Test objective** | The objective is to test that the POST request triggers Supported Indicators Change Notification . |
| **Pre-conditions** | A VNF is instantiated, and a subscription for supported indicators change notifications is available in the VNF. |
| **Reference** | Clause 8.4.7.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_Notif\_Endpoint |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Supported Indicators Change Notification  Check HTTP Response Status Code Is 204 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.8.3 Test the Notification Endpoint - Successful

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.8.3 |
| **Test title** | Test the Notification Endpoint - Successful |
| **Test objective** | The objective is to test the Notification Endpoint provided by the notification consumer. |
| **Pre-conditions** | A notification endpoint is provided by the API consumer upon subscription. |
| **Reference** | Clause 8.4.7.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_Notif\_Endpoint |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get reach the notification endpoint  Check HTTP Response Status Code Is 204 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.8.4 Test the Notification Endpoint - NOT FOUND

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.8.4 |
| **Test title** | Test the Notification Endpoint - UNREACHABLE |
| **Test objective** | The objective is to test the Notification Endpoint provided by the notification consumer. |
| **Pre-conditions** | A notification endpoint is provided by the API consumer upon subscription. |
| **Reference** | Clause 8.4.7.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_Notif\_Endpoint |
| **Applicability** | The notification endpoint is unreachable by the API producer. |
| **Post-Conditions** | none |
| **Test Case** | |
| GET reach an unreachable notification endpoint  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/NotificationEndpoint.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.8.5 PUT Notification endpoint - Method Not Implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.8.5 |
| **Test title** | PUT Notification endpoint - Method Not Implemented |
| **Test objective** | The objective is to test the PUT method for Notification Endpoint provided by the consumer is not implemented. |
| **Pre-conditions** | A notification endpoint is provided by the API consumer upon subscription. |
| **Reference** | Clause 8.4.7.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_Notif\_Endpoint |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT notification endpoint  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.8.6 PATCH Notification endpoint - Method Not Implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.8.6 |
| **Test title** | PATCH Notification endpoint - Method Not Implemented |
| **Test objective** | The objective is to test the PATCH method for Notification Endpoint provided by the consumer is not implemented. |
| **Pre-conditions** | A notification endpoint is provided by the API consumer upon subscription. |
| **Reference** | Clause 8.4.7.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_Notif\_Endpoint |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH notification endpoint  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/c2b872a/SOL002/VNFIndicator-API>

##### 6.3.2.8.7 DELETE Notification endpoint - Method Not Implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.2.8.7 |
| **Test title** | DELETE Notification endpoint - Method Not Implemented |
| **Test objective** | The objective is to test the DELETE method for Notification Endpoint provided by the consumer is not implemented. |
| **Pre-conditions** | A notification endpoint is provided by the API consumer upon subscription. |
| **Reference** | Clause 8.4.7.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_Notif\_Endpoint |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE notification endpoint  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/c2b872a/SOL002/VNFIndicator-API>

### 6.3.3 VNF Performance Management Interface

#### 6.3.3.1 PMJobs

##### 6.3.3.1.1 GET all VNF Performance Monitoring Jobs

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.1 |
| **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 002 [2] v3.3.1 |
| **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 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.2 |
| **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 002 [2] v3.3.1 |
| **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 Matches filter | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.3 |
| **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 002 [2] v3.3.1 |
| **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 Matches all\_fields selector | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.4 |
| **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 002 [2] v3.3.1 |
| **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 Matches exclude\_default selector | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.5 |
| **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 002 [2] v3.3.1 |
| **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 Matches fields selector | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.6 |
| **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 002 [2] v3.3.1 |
| **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 Matches exclude\_fields selector | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.7 |
| **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 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.8 |
| **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, 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 002 [2] v3.3.1 |
| **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 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/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.1.9 POST Create new VNF Performance Monitoring Job - SUCCESSFUL

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.9 |
| **Test title** | POST Create a new VNF Performance Monitoring Job - SUCCESSFUL |
| **Test objective** | The objective is to test that the POST method creates 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 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.10 |
| **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** | none |
| **Reference** | Clause 6.4.2.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.1.11 PATCH all VNF Performance Monitoring Jobs - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.11 |
| **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** | none |
| **Reference** | Clause 6.4.2.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.12 |
| **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** | none |
| **Reference** | Clause 6.4.2.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.1.13 GET VNF Performance Monitoring Jobs to get Paged Response

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.13 |
| **Test title** | GET VNF Performance Monitoring Jobs to get Paged Response |
| **Test objective** | The objective is to test the retrieval of VNF performance monitoring jobs to get Paged 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 002 [2] v3.3.1 |
| **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 Header Contain Link | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.1.14 GET VNF Performance Monitoring Jobs for Bad Request Response too big

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.14 |
| **Test title** | GET VNF Performance Monitoring Jobs for Bad Request Response too big |
| **Test objective** | The objective is to test that GET method fail retrieving status information about VNF Performance Monitoring when Response is too big, 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET all VNF Performance Monitoring Jobs  Check HTTP Response Status Code Is 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/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.1.15 GET all VNF Performance Monitoring Jobs with exclude\_default and fields attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.15 |
| **Test title** | GET all VNF Performance Monitoring Jobs with exclude\_default and fields attribute selector |
| **Test objective** | The objective is to test the retrieval of all VNF performance monitoring jobs with exclude\_default and fields 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF Performance Monitoring Jobs with exclude\_default and fields attribute selector  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is PmJobs | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/PMJobs.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.1.16 POST Create new VNF Performance Monitoring Job - UNPROCESSIBLE ENTITY

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.1.16 |
| **Test title** | POST Create a new VNF Performance Monitoring Job - UNPROCESSIBLE ENTITY |
| **Test objective** | The objective is to test that the POST method cannot create a new VNF performance monitoring job when the callback URI provided in the Request body is unreachable by the VNFM. |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | The VNFM cannot reach the Notification endpoint. |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Post Request Create new VNF Performance Monitoring Job with Unreachable Callback URI  Check HTTP Response Status Code Is 422 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/c2b872a/SOL002/VNFPerformanceManagement-API>

#### 6.3.3.2 IndividualPmJob

##### 6.3.3.2.1 GET individual VNF Performance Job

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.2.1 |
| **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 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.2.2 |
| **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 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.2.3 DELETE Individual VNF Performance Job

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.2.3 |
| **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 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.2.4 |
| **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, 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 6.4.3.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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 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/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.2.5 |
| **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** | none |
| **Reference** | Clause 6.4.3.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Post request for individual VNF Performance Job  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualPmJob.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.2.6 |
| **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** | none |
| **Reference** | Clause 6.4.3.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Put request for individual VNF Performance Job  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualPmJob.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.2.7 PATCH Individual VNF Performance Job

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.2.7 |
| **Test title** | PATCH Individual VNF Performance Job |
| **Test objective** | The objective is to test that PATCH method allows to modify an exsisting individual PM job resource. |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Patch request for individual VNF Performance Job  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is PMJobModifications | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualPmJob.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.2.8 PATCH Individual VNF Performance Job - Precondition failed

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.2.8 |
| **Test title** | PATCH Individual VNF Performance Job - Precondition failed |
| **Test objective** | The objective is to attempt to Modify an individual alarm resource, where the precondition was not met |
| **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 002 [2] v3.3.1 |
| **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 412 Check HTTP Response Body Json Schema Is ProblemDetails 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/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.2.9 PATCH Individual VNF Performance Job - UNPROCESSIBLE ENTITY

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.2.9 |
| **Test title** | PATCH Individual VNF Performance Job - UNPROCESSIBLE ENTITY |
| **Test objective** | The objective is to test that PATCH method cannot modify an exsisting individual PM job resource when the callback URI provided in the Request body is unreachable by the VNFM. |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | The VNFM cannot reach the Notification endpoint. |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Patch request for individual VNF Performance Job with Unreachable Callback URI  Check HTTP Response Status Code Is 422 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/c2b872a/SOL002/VNFPerformanceManagement-API>

#### 6.3.3.3 IndividualReport

##### 6.3.3.3.1 Get Individual Performance Report

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.3.1 |
| **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 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.3.2 |
| **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 002 [2] v3.3.1 |
| **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 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualReport.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.3.3 |
| **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** | none |
| **Reference** | Clause 6.4.4.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Post request for Individual Performance Report  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualReport.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.3.4 |
| **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** | none |
| **Reference** | Clause 6.4.4.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Put request for Individual Performance Report  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualReport.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.3.5 |
| **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** | none |
| **Reference** | Clause 6.4.4.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Patch request for Individual Performance Report  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualReport.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.3.6 |
| **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** | none |
| **Reference** | Clause 6.4.4.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Delete request for Individual Performance Report  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualReport.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

#### 6.3.3.4 Thresholds

##### 6.3.3.4.1 GET All Performance Thresholds

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.4.1 |
| **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 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.4.2 |
| **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 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.4.3 |
| **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 002 [2] v3.3.1 |
| **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 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/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.4.4 |
| **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 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.4.5 POST Create new Performance Threshold

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.4.5 |
| **Test title** | POST Create new Performance Threshold |
| **Test objective** | The objective is to test that the POST method creates 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 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.4.6 |
| **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** | none |
| **Reference** | Clause 6.4.5.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.4.7 |
| **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** | none |
| **Reference** | Clause 6.4.5.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.4.8 |
| **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** | none |
| **Reference** | Clause 6.4.5.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send DELETE 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/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.4.9 GET Performance Thresholds with Paged Response

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.4.9 |
| **Test title** | GET Performance Thresholds with Paged Response |
| **Test objective** | The objective is to test the retrieval of all the available VNF performance thresholds with Paged 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 002 [2] v3.3.1 |
| **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 Header Contain Link | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Thresholds.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.4.10 GET Performance Thresholds for Bad Request Response too big

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.4.10 |
| **Test title** | GET Performance Thresholds for Bad Request Response too big |
| **Test objective** | The objective is to test that the retrieval of VNF performance thresholds fails when response is too big, 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET all Performance Thresholds  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/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.4.11 POST Create new Performance Threshold - UNPROCESSIBLE ENTITY

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.4.11 |
| **Test title** | POST Create new Performance Threshold |
| **Test objective** | The objective is to test that the POST method does not create a new VNF performance threshold when the callback URI provided in the Request body is unreachable by the VNFM. |
| **Pre-conditions** | A VNF instance is instantiated. |
| **Reference** | Clause 6.4.5.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | The VNFM cannot reach the Notification endpoint. |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Post Request Create new Performance Threshold with Unreachable Callback URI  Check HTTP Response Status Code Is 422 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/c2b872a/SOL002/VNFPerformanceManagement-API>

#### 6.3.3.5 IndividualThreshold

##### 6.3.3.5.1 GET Individual Threshold

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.5.1 |
| **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 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.5.2 |
| **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 002 [2] v3.3.1 |
| **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 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualThreshold.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.5.3 DELETE Individual Threshold

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.5.3 |
| **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 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.5.4 |
| **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 002 [2] v3.3.1 |
| **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 Check HTTP Response Body Json Schema Is ProblemDetails | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualThreshold.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.5.5 |
| **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** | none |
| **Reference** | Clause 6.4.6.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualThreshold.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.5.6 |
| **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** | none |
| **Reference** | Clause 6.4.6.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Send Put request for individual VNF Performance Threshold  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualThreshold.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.5.7 PATCH Individual Threshold

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.5.7 |
| **Test title** | PATCH Individual Threshold |
| **Test objective** | The objective is to test that PATCH method allows to modify an Individual threshold resource. |
| **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 002 [2] v3.3.1 |
| **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 200 Check HTTP Response Body Json Schema Is ThresholdModifications | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualThreshold.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.5.8 PATCH Individual Threshold - Precondition failed

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.5.8 |
| **Test title** | PATCH Individual Threshold - Preconition failed |
| **Test objective** | The objective is to attempt to modify an individual threshold resource, where the precondition was not met. |
| **Pre-conditions** | A VNF instance is instantiated. One or more VNF performance jobs are set in the VNFM. |
| **Reference** | Clause 6.4.6.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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 Threshold  Check HTTP Response Status Code Is 412 Check HTTP Response Body Json Schema Is ProblemDetails 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/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.5.9 PATCH Individual Threshold - Unprocessible Entity

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.5.9 |
| **Test title** | PATCH Individual Threshold - Unprocessible Entity |
| **Test objective** | The objective is to test that PATCH method cannot modify an exsisting individual PM job resource when the callback URI provided in the Request body is unreachable by the VNFM. |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | The VNFM cannot reach the Notification endpoint. |
| **Post-Conditions** | The VNF Performance Threshold is not modified by the operation |
| **Test Case** | |
| Send Patch request for individual VNF Performance Threshold with Unreachable Callback URI  Check HTTP Response Status Code Is 422 Check HTTP Response Body Json Schema Is ProblemDetails 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/c2b872a/SOL002/VNFPerformanceManagement-API>

#### 6.3.3.8 Notifications

##### 6.3.3.8.1 VNF Performance Information Availability Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.8.1 |
| **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 002 [2] v2.7.1 |
| **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/Notifications.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.8.2 VNF Threshold Crossed Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.8.2 |
| **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 002 [2] v2.7.1 |
| **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/Notifications.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

#### 6.3.3.9 ApiVersion

##### 6.3.3.9.1 POST API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.9.1 |
| **Test title** | POST API version - Method not implemented |
| **Test objective** | The objective is to test that POST method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.1 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.9.2 GET API Version

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.9.2 |
| **Test title** | GET API Version |
| **Test objective** | The objective is to test that GET method successfully return ApiVersionInformation |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.2 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET API Version  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is ApiVersionInformation | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.9.3 PUT API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.9.3 |
| **Test title** | PUT API Version - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.3 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.9.4 PATCH API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.9.4 |
| **Test title** | PATCH API Version - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.4 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.9.5 DELETE API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.9.5 |
| **Test title** | DELETE API Version - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.5 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.9.6 POST API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.9.6 |
| **Test title** | POST API version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that POST method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.1 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.9.7 GET API Version with apiMajorVerion

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.9.7 |
| **Test title** | GET API Version with apiMajorVerion |
| **Test objective** | The objective is to test that GET method successfully return ApiVersionInformation |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.2 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET API Version  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is ApiVersionInformation | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.9.8 PUT API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.9.8 |
| **Test title** | PUT API Version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.3 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.9.9 PATCH API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.9.9 |
| **Test title** | PATCH API Version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.4 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.9.10 DELETE API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.9.10 |
| **Test title** | DELETE API Version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.5 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

#### 6.3.3.10 NotificationEndpoint

##### 6.3.3.10.1 VNF Performance Information Availability Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.10.1 |
| **Test title** | VNF Performance Information Availability Notification |
| **Test objective** | The objective is to test that VNF Performance Information Availability Notification is delivered with success to the notification consumer |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_Notif\_Endpoint |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post VNF Performance Information Availability Notification  Check HTTP Response Status Code Is 204 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

##### 6.3.3.10.2 VNF Threshold Crossed Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.3.10.2 |
| **Test title** | VNF Threshold Crossed Notification |
| **Test objective** | The objective is to test that VNF Threshold Crossed Notification is delivered with success to the notification consumer |
| **Pre-conditions** | A VNF performance job is created, and a subscription for Threshold Crossed Notification is available in the VNFM. |
| **Reference** | Clause 6.4.9.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_Notif\_Endpoint |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post VNF Threshold Crossed Notification  Check HTTP Response Status Code Is 204 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/c2b872a/SOL002/VNFPerformanceManagement-API>

### 6.3.4 VNF Fault Management interface

#### 6.3.4.1 Alarms

##### 6.3.4.1.1 POST Alarms - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.1 |
| **Test title** | POST Alarms - Method not implemented |
| **Test objective** | The objective is to test that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.2.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Alarms Task  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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.2 GET information about multiple alarms

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.2 |
| **Test title** | GET information about multiple alarms |
| **Test objective** | The objective is to retrieve information about the alarm list |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Alarms Task  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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.3 GET information about multiple alarms with attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.3 |
| **Test title** | GET information about multiple alarms with attribute-based filter |
| **Test objective** | The objective is to retrieve information about the alarm list with attribute-based filter |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Alarms Task with filter  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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.4 GET information about multiple alarms with invalid attribute-based filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.4 |
| **Test title** | GET information about multiple alarms with invalid attribute-based filter |
| **Test objective** | The objective is to retrieve information about the alarm list |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Alarms Task 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/Alarms.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.5 GET information about multiple alarms with "all\_fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.5 |
| **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** | none |
| **Reference** | Clause 7.4.2.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.6 GET information about multiple alarms with exclude\_default attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.6 |
| **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** | none |
| **Reference** | Clause 7.4.2.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.7 GET information about multiple alarms with fields attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.7 |
| **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** | none |
| **Reference** | Clause 7.4.2.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.8 GET information about multiple alarms with "exclude\_fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.8 |
| **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** | none |
| **Reference** | Clause 7.4.2.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.9 PUT Alarms - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.9 |
| **Test title** | PUT Alarms - Method not implemented |
| **Test objective** | The objective is to test that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.2.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT Alarms Task  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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.10 PATCH Alarms - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.10 |
| **Test title** | PATCH Alarms - Method not implemented |
| **Test objective** | The objective is to test that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.2.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH Alarms Task  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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.11 DELETE Alarms - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.11 |
| **Test title** | DELETE Alarms - Method not implemented |
| **Test objective** | The objective is to test that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.2.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE Alarms Task  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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.12 GET information about multiple alarms to get Paged Response

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.12 |
| **Test title** | GET information about multiple alarms to get Paged Response |
| **Test objective** | The objective is to retrieve information about the alarms to get paged response |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Alarms Task  Check HTTP Response Status Code Is 200 Check HTTP Response Header Contain Link | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.13 GET information about multiple alarms for Bad Request Response too big

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.13 |
| **Test title** | GET information about multiple alarms for Bad Request Response too big |
| **Test objective** | The objective is to test that GET method fail retrieving status information about Alarms when Response is too big, and perform the JSON schema validation of the failed operation HTTP response |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Alarms Task 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/Alarms.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.14 GET information about alarms with attribute-based filter "id"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.14 |
| **Test title** | GET information about alarms with attribute-based filter "id" |
| **Test objective** | The objective is to retrieve information about the alarm list with alarm filter "id" |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Alarms Task with filter "id"  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is alarm Check PostCondition HTTP Response Body alarms Matches the requested attribute-based filter "id" | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.15 GET information about multiple alarms with attribute-based filter "vnfcInstanceIds"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.15 |
| **Test title** | GET information about multiple alarms with attribute-based filter "vnfcInstanceIds" |
| **Test objective** | The objective is to retrieve information about the alarm list with attribute filter "vnfcInstanceIds" |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Alarms Task with filter "vnfcInstanceIds"  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is alarms Check PostCondition HTTP Response Body alarms Matches the requested attribute-based filter "vnfcInstanceIds" | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.16 GET information about multiple alarms with attribute-based filter "rootCauseFaultyResource.faultyResourceType"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.16 |
| **Test title** | GET information about multiple alarms with attribute-based filter "rootCauseFaultyResource.faultyResourceType" |
| **Test objective** | The objective is to retrieve information about the alarm list with attribute filter "rootCauseFaultyResource.faultyResourceType" |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Alarms Task with filter "rootCauseFaultyResource\_faultyResourceType"  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is alarms Check PostCondition HTTP Response Body alarms Matches the requested attribute-based filter "rootCauseFaultyResource\_faultyResourceType" | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.17 GET information about multiple alarms with attribute-based filter "eventType"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.17 |
| **Test title** | GET information about multiple alarms with attribute-based filter "eventType" |
| **Test objective** | The objective is to retrieve information about the alarm list with attribute filter "eventType" |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Alarms Task with filter "eventType"  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is alarms Check PostCondition HTTP Response Body alarms Matches the requested attribute-based filter "eventType" | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.18 GET information about multiple alarms with attribute-based filter "perceivedSeverity"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.18 |
| **Test title** | GET information about multiple alarms with attribute-based filter "perceivedSeverity" |
| **Test objective** | The objective is to retrieve information about the alarm list with attribute filter "perceivedSeverity" |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Alarms Task with filter "perceivedSeverity"  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is alarms Check PostCondition HTTP Response Body alarms Matches the requested attribute-based filter "perceivedSeverity" | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.1.19 GET information about multiple alarms with attribute-based filter "probableCause"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.1.19 |
| **Test title** | GET information about multiple alarms with attribute-based filter "probableCause" |
| **Test objective** | The objective is to retrieve information about the alarm list with attribute filter "probableCause" |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Alarms Task with filter "probableCause"  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is alarms Check PostCondition HTTP Response Body alarms Matches the requested attribute-based filter "probableCause" | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Alarms.robot/c2b872a/SOL002/VNFFaultManagement-API>

#### 6.3.4.2 IndividualAlarm

##### 6.3.4.2.1 POST Alarm - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.2.1 |
| **Test title** | POST Alarm - Method not implemented |
| **Test objective** | The objective is to test that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.3.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Alarm Task  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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.2.2 GET information about an individual alarm

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.2.2 |
| **Test title** | GET information about an individual alarm |
| **Test objective** | The objective is to read an individual alarm. |
| **Pre-conditions** | The related alarm exists |
| **Reference** | Clause 7.4.3.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Alarm Task  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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.2.3 PUT Individual Alarm - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.2.3 |
| **Test title** | PUT Individual Alarm - Method not implemented |
| **Test objective** | The objective is to test that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.3.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT Alarm Task  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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.2.4 PATCH Individual Alarm

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.2.4 |
| **Test title** | PATCH Individual Alarm |
| **Test objective** | The objective is to Modify an individual alarm resource |
| **Pre-conditions** | The related alarm exists |
| **Reference** | Clause 7.4.3.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH Alarm Task  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is alarmModifications | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualAlarm.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.2.5 PATCH Individual Alarm - Precondition failed

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.2.5 |
| **Test title** | PATCH Individual Alarm - Precondition failed |
| **Test objective** | The objective is to attempt to Modify an individual alarm resource, where the precondition was not met |
| **Pre-conditions** | The related alarm exists |
| **Reference** | Clause 7.4.3.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The alarm resource is not modified |
| **Test Case** | |
| PATCH Alarm Task with wrong precondition  Check HTTP Response Status Code Is 412 Check HTTP Response Body Json Schema Is ProblemDetails Check Postcondition VNF individual alarm Unmodified (Implicit) | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualAlarm.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.2.6 PATCH Individual Alarm - Conflict

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.2.6 |
| **Test title** | PATCH Individual Alarm - Conflict |
| **Test objective** | The objective is to Modify an individual alarm resource |
| **Pre-conditions** | The related alarm exists |
| **Reference** | Clause 7.4.3.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | The alarm resource is not modified |
| **Test Case** | |
| PATCH Alarm Task  Check HTTP Response Status Code Is 409 Check HTTP Response Body Json Schema Is ProblemDetails Check Postcondition VNF individual alarm Unmodified (Implicit) | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualAlarm.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.2.7 DELETE Individual Alarm - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.2.7 |
| **Test title** | DELETE Individual Alarm - Method not implemented |
| **Test objective** | The objective is to test that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.3.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE Alarm Task  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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.2.8 GET information about an individual alarm - Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.2.8 |
| **Test title** | GET information about an individual alarm - Not Found |
| **Test objective** | The objective is to test that GET method fail retrieving status information about individaual Alarms when alarm is not present. |
| **Pre-conditions** | The related alarm doesnot exists |
| **Reference** | Clause 7.4.3.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET Alarm Task  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/IndividualAlarm.robot/c2b872a/SOL002/VNFFaultManagement-API>

#### 6.3.4.3 EscalatePerceivedSeverityTask

##### 6.3.4.3.1 Escalate the perceived severity

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.3.1 |
| **Test title** | Escalate the perceived severity |
| **Test objective** | To enable the consumer to escalate the perceived severity of an alarm that is represented by an individual alarm resource. |
| **Pre-conditions** | The resource representing the individual alarm has been created |
| **Reference** | Clause 7.4.4.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post escalate severity  Check HTTP Response Status Code Is 204 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/EscalatePerceivedSeverityTask.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.3.2 GET Escalate the perceived severity - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.3.2 |
| **Test title** | GET Escalate the perceived severity - Method not implemented |
| **Test objective** | The objective is to test that the GET HTTP method not implemented for escalate perceived severity |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.4.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get escalate severity  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/EscalatePerceivedSeverityTask.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.3.3 PUT Escalate the perceived severity - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.3.3 |
| **Test title** | PUT Escalate the perceived severity - Method not implemented |
| **Test objective** | The objective is to test that the PUT HTTP method not implemented for escalate perceived severity |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.4.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Put escalate severity  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/EscalatePerceivedSeverityTask.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.3.4 PATCH Escalate the perceived severity - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.3.4 |
| **Test title** | PATCH Escalate the perceived severity - Method not implemented |
| **Test objective** | The objective is to test that the PATCH HTTP method not implemented for escalate perceived severity |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.4.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH escalate severity  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/EscalatePerceivedSeverityTask.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.3.5 DELETE Escalate the perceived severity - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.3.5 |
| **Test title** | DELETE Escalate the perceived severity - Method not implemented |
| **Test objective** | The objective is to test that the DELETE HTTP method not implemented for escalate perceived severity |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.4.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Delete escalate severity  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/EscalatePerceivedSeverityTask.robot/c2b872a/SOL002/VNFFaultManagement-API>

#### 6.3.4.4 Subscriptions

##### 6.3.4.4.1 Create a new subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.1 |
| **Test title** | Create a new subscription |
| **Test objective** | The objective is to create a new subscription. |
| **Pre-conditions** | no subscription with the same filter and callbackUri exists |
| **Reference** | Clause 7.4.5.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | Resource created successfully |
| **Test Case** | |
| Post Create subscription  Check HTTP Response Status Code Is 201 Check HTTP Response Body Json Schema Is FmSubscription Check HTTP Response Header Contain Link  Check Postcondition resource exists | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.2 Create a duplicated Subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.2 |
| **Test title** | Create a duplicated Subscription |
| **Test objective** | The objective is to create a duplicate subscription. |
| **Pre-conditions** | subscription with the same filter and callbackUri exists |
| **Reference** | Clause 7.4.5.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** |  |
| **Post-Conditions** | duplicated subscription is created if the IUT allows duplications, otherwise the duplicated subscription is not created |
| **Test Case** | |
| Post Create subscription  Check Response for duplicated subscription | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.4 GET Subscriptions

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.4 |
| **Test title** | GET Subscriptions |
| **Test objective** | The objective is to retrieve the list of active subscriptions |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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 FmSubscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.5 GET Subscription - Filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.5 |
| **Test title** | GET Subscription - Filter |
| **Test objective** | The objective is to retrieve the list of active subscriptions with filter |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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 FmSubscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFFaultManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.6 |
| **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 |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.7 GET subscriptions with "all\_fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.7 |
| **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** | none |
| **Reference** | Clause 7.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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 FmSubscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.8 GET subscriptions with "exclude\_default" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.8 |
| **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** | none |
| **Reference** | Clause 7.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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 FmSubscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.9 GET subscriptions with "fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.9 |
| **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** | none |
| **Reference** | Clause 7.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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 FmSubscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.10 GET subscriptions with "exclude\_fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.10 |
| **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** | none |
| **Reference** | Clause 7.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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 FmSubscriptions | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.11 PUT subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.11 |
| **Test title** | PUT subscriptions - Method not implemented |
| **Test objective** | The objective is to test that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.5.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.12 PATCH subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.12 |
| **Test title** | PUT subscriptions - Method not implemented |
| **Test objective** | The objective is to test that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.5.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.13 DELETE subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.13 |
| **Test title** | DELETE subscriptions - Method not implemented |
| **Test objective** | The objective is to test that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.5.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.14 GET Subscriptions to get Paged Response

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.14 |
| **Test title** | GET Subscriptions to get Paged Response |
| **Test objective** | The objective is to retrieve the list of active subscriptions to get paged response |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get subscriptions  Check HTTP Response Status Code Is 200 Check HTTP Response Header Contain Link | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.15 GET subscriptions - Bad Request Response too Big

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.15 |
| **Test title** | GET subscriptions - Bad Request Response too Big |
| **Test objective** | The objective is to test that GET method fail retrieving list of active subscription because Response is too big, and perform the JSON schema validation of the failed operation HTTP response |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.16 GET Subscription with attribute-based filter "id"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.16 |
| **Test title** | GET Subscription with attribute-based filter "id" |
| **Test objective** | The objective is to retrieve the list of active subscriptions with filter "id" |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get subscriptions with filter "id"  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is FmSubscription Check PostCondition HTTP Response Body Subscription Matches the requested attribute-based filter "id" | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.17 Get subscriptions with filter "filter.notificationTypes"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.17 |
| **Test title** | GET Subscription with attribute-based filter "filter.notificationTypes" |
| **Test objective** | The objective is to retrieve the list of active subscriptions with filter "filter.notificationTypes" |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get subscriptions with filter "filter\_notificationTypes"  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is FmSubscriptions Check PostCondition HTTP Response Body Subscriptions Matches the requested attribute-based filter "filter\_notificationTypes" | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.18 Get subscriptions with filter "filter.faultyResourceTypes"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.18 |
| **Test title** | GET Subscription with attribute-based filter "filter.faultyResourceTypes" |
| **Test objective** | The objective is to retrieve the list of active subscriptions with filter "filter.faultyResourceTypes" |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get subscriptions with filter "filter\_faultyResourceTypes"  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is FmSubscriptions Check PostCondition HTTP Response Body Subscriptions Matches the requested attribute-based filter "filter\_faultyResourceTypes" | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.19 Get subscriptions with filter "filter.perceivedSeverities"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.19 |
| **Test title** | GET Subscription with attribute-based filter "filter.perceivedSeverities" |
| **Test objective** | The objective is to retrieve the list of active subscriptions with filter "filter.perceivedSeverities" |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get subscriptions with filter "filter\_perceivedSeverities"  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is FmSubscriptions Check PostCondition HTTP Response Body Subscriptions Matches the requested attribute-based filter "filter\_perceivedSeverities" | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.20 Get subscriptions with filter "filter.eventTypes"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.20 |
| **Test title** | GET Subscription with attribute-based filter "filter.eventTypes" |
| **Test objective** | The objective is to retrieve the list of active subscriptions with filter "filter.eventTypes" |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get subscriptions with filter "filter\_eventTypes"  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is FmSubscriptions Check PostCondition HTTP Response Body Subscriptions Matches the requested attribute-based filter "filter\_eventTypes" | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.21 Get subscriptions with filter "filter.probableCauses"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.21 |
| **Test title** | GET Subscription with attribute-based filter "filter.probableCauses" |
| **Test objective** | The objective is to retrieve the list of active subscriptions with filter "filter.probableCauses" |
| **Pre-conditions** | none |
| **Reference** | Clause 7.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get subscriptions with filter "filter\_probableCauses"  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is FmSubscriptions Check PostCondition HTTP Response Body Subscriptions Matches the requested attribute-based filter "filter\_probableCauses" | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.4.21 POST Create a new Subscription - Unprocessable Entity

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.4.21 |
| **Test title** | POST Create a new Subscription - Unprocessable Entity |
| **Test objective** | The objective is to test that content type of the payload body is supported and the payload body of a request contains syntactically correct data but the data cannot be processed. |
| **re-conditions** | none |
| **Reference** | Clause 7.4.5.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Create subscription  Check HTTP Response Status Code Is 422 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/c2b872a/SOL002/VNFFaultManagement-API>

#### 6.3.4.5 IndividualSubscription

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.5.1 |
| **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 7.4.6.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.5.2 GET Information about an individual subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.5.2 |
| **Test title** | GET Information about an individual subscription |
| **Test objective** | The objective is to read an individual subscription for VNF alarms subscribed by the client |
| **Pre-conditions** | The subscription with the given id exists |
| **Reference** | Clause 7.4.6.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFFaultManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.5.3 |
| **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 7.4.6.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFFaultManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.5.4 |
| **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 7.4.6.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.5.5 DELETE an individual subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.5.5 |
| **Test title** | DELETE an individual subscription |
| **Test objective** | The objective is to test that the deletion of a individual subscription resource. |
| **Pre-conditions** | one or more subscription already exsist |
| **Reference** | Clause 7.4.6.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | the subscription is deleted |
| **Test Case** | |
| Delete individual subscription  Check HTTP Response Status Code Is 204 Check Postcondition resource is deleted | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.5.6 GET Information about an individual subscription - Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.5.6 |
| **Test title** | GET Information about an individual subscription - Not Found |
| **Test objective** | The objective is to test that GET method fail retrieving individual subscription for VNF alarms subscribed by the client because it is not present. |
| **Pre-conditions** | The subscription with the given id donot exists |
| **Reference** | Clause 7.4.6.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get individual subscription  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/IndividualSubscription.robot/c2b872a/SOL002/VNFFaultManagement-API>

#### 6.3.4.6 Notifications

##### 6.3.4.6.1 VNF Fault Alarm Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.6.1 |
| **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 7.4.7.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/Notifications.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.6.2 VNF Fault Alarm Cleared Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.6.2 |
| **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 7.4.7.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/Notifications.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.6.3 VNF Fault Alarm List Rebuilt Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.6.3 |
| **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 7.4.7.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **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/Notifications.robot/c2b872a/SOL002/VNFFaultManagement-API>

#### 6.3.4.7 ApiVersion

##### 6.3.4.7.1 POST API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.7.1 |
| **Test title** | POST API version - Method not implemented |
| **Test objective** | The objective is to test that POST method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.1 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.7.2 GET API Version

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.7.2 |
| **Test title** | GET API Version |
| **Test objective** | The objective is to test that GET method successfully return ApiVersionInformation |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.2 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET API Version  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is ApiVersionInformation | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.7.3 PUT API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.7.3 |
| **Test title** | PUT API Version - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.3 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.7.4 PATCH API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.7.4 |
| **Test title** | PATCH API Version - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.4 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.7.5 DELETE API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.7.5 |
| **Test title** | DELETE API Version - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.5 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.7.6 POST API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.7.6 |
| **Test title** | POST API version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that POST method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.1 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.7.7 GET API Version with apiMajorVerion

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.7.7 |
| **Test title** | GET API Version with apiMajorVerion |
| **Test objective** | The objective is to test that GET method successfully return ApiVersionInformation |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.2 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET API Version  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is ApiVersionInformation | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.7.8 PUT API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.7.8 |
| **Test title** | PUT API Version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.3 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.7.9 PATCH API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.7.9 |
| **Test title** | PATCH API Version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.4 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.7.10 DELETE API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.7.10 |
| **Test title** | DELETE API Version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.5 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFFaultManagement-API>

#### 6.3.4.8 NotificationEndpoint

##### 6.3.4.8.1 VNF Fault Alarm Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.8.1 |
| **Test title** | VNF Fault Alarm Notification |
| **Test objective** | The objective is to test that VNF Fault Alarm Notification is delivered with success to the notification consumer |
| **Pre-conditions** | A VNF instance is instantiated, and a subscription for fault alarm notifications is available in the VNFM. |
| **Reference** | Clause 7.4.7.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_Notif\_Endpoint |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Alarm Notification  Check HTTP Response Status Code Is 204 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.8.2 VNF Fault Alarm Cleared Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.8.2 |
| **Test title** | VNF Fault Alarm Cleared Notification |
| **Test objective** | The objective is to test that VNF Fault Alarm Cleared Notification is delivered with success to the notification consumer |
| **Pre-conditions** | A VNF instance is instantiated, and a subscription for fault alarm cleared notifications is available in the VNFM. |
| **Reference** | Clause 7.4.7.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_Notif\_Endpoint |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Alarm Cleared Notification  Check HTTP Response Status Code Is 204 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/c2b872a/SOL002/VNFFaultManagement-API>

##### 6.3.4.8.3 VNF Fault Alarm List Rebuilt Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.4.8.3 |
| **Test title** | VNF Fault List Rebuilt Alarm List Rebuilt Notification |
| **Test objective** | The objective is to test that VNF Fault Alarm List Rebuilt Notification is delivered with success to the notification consumer |
| **Pre-conditions** | A VNF instance is instantiated, and a subscription for fault alarm list rebuilt notifications is available in the VNFM. |
| **Reference** | Clause 7.4.7.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_Notif\_Endpoint |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Alarm List Rebuilt Notification  Check HTTP Response Status Code Is 204 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/c2b872a/SOL002/VNFFaultManagement-API>

### 6.3.5 VNF Lifecycle Management interface

#### 6.3.5.1 VNFInstances

##### 6.3.5.1.1 POST Create a new vnfInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.1.1 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **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 Check HTTP Response Body vnfInstance content against VNF Descriptor | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFInstances.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.1.2 GET information about multiple VNF instances

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.1.2 |
| **Test title** | GET information about multiple VNF instances |
| **Test objective** | The objective is to get information about multiples VNF instances |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET multiple vnfInstances  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfInstances Check HTTP Response Body vnfInstances content against VNF Descriptor | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VNFInstances.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.1.3 |
| **Test title** | GET information about multiple VNF instances Bad Request Invalid attribute-based filtering parameters |
| **Test objective** | The objective is to get information about multiples VNF instances with Invalid attribute-based filtering parameters |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.1.4 |
| **Test title** | GET information about multiple VNF instances Bad Request Invalid attribute selector |
| **Test objective** | The objective is to get information about multiples VNF instances with Invalid attribute-based filtering parameters |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.1.5 |
| **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** | none |
| **Reference** | Clause 5.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.1.6 |
| **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** | none |
| **Reference** | Clause 5.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.1.7 |
| **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** | none |
| **Reference** | Clause 5.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.1.8 |
| **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** | none |
| **Reference** | Clause 5.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.1.9 PUT VNFInstances - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.1.9 |
| **Test title** | PUT VNFInstances - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.2.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.1.10 PATCH VNFInstances - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.1.10 |
| **Test title** | PATCH VNFInstances - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.2.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.1.11 DELETE VNFInstances - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.1.11 |
| **Test title** | DELETE VNFInstances - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.2.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | VNF instance not deleted |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.1.12 GET information about multiple VNF instances with "exclude\_default" and "fields" attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.1.12 |
| **Test title** | GET information about multiple VNF instances with "exclude\_default" and "fields" attribute selector |
| **Test objective** | The objective is to query information about multiple VNF instances |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.2.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET multiple vnfInstances with exclude\_default and 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.1.13 POST Create a new vnfInstance - UNPROCESSIBLE ENTITY

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.1.13 |
| **Test title** | POST Create a new vnfInstance - UNPROCESSIBLE ENTITY |
| **Test objective** | The objective is to test that a new VNF instance resource is not created when |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.2.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | vnfdId of the referenced VNF package is not in ENABLED state or does not exist. |
| **Post-Conditions** | VNF instance created |
| **Test Case** | |
| POST Create a new vnfInstance with Invalid vnfdId  Check HTTP Response Status Code Is 422 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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.2 IndividualVNFInstance

##### 6.3.5.2.1 POST Individual VNFInstance - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.2.1 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.2.2 GET Information about an individual VNF Instance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.2.2 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET individual vnfInstance  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfInstance Check HTTP Response Body vnfInstance content against VNF Descriptor | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFInstance.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.2.3 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | VNF instance not modified |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.2.4 PATCH Individual VNFInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.2.4 |
| **Test title** | PATCH Individual VNFInstance |
| **Test objective** | This method modifies an individual VNF instance resource |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.3.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | VNF instance modified |
| **Test Case** | |
| PATCH individual vnfInstance  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVNFInstance.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.2.5 PATCH Individual VNFInstance Precondition failed

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.2.5 |
| **Test title** | PATCH Individual VNFInstance Precondition failed |
| **Test objective** | The objective is to that the modification of individual VNFInstance fails because precondition given in an HTTP request header is not fulfilled. Typically, this is due to an ETag mismatch, indicating that the resource was modified by another entity. |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.3.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.2.6 PATCH Individual VNFInstance Conflict

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.2.6 |
| **Test title** | PATCH Individual VNFInstance Conflict |
| **Test objective** | The objective is to verify that modification operation cannot be executed currently, due to a conflict with the state of the VNF instance resource because another LCM Operation is ongoing. |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.3.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.2.7 DELETE Individual VNFInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.2.7 |
| **Test title** | DELETE Individual VNFInstance |
| **Test objective** | The objective is to delete a VNF instance |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.3.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | VNF instance 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.2.8 DELETE Individual VNFInstance Conflict

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.2.8 |
| **Test title** | DELETE Individual VNFInstance Conflict |
| **Test objective** | The objective is to verify that The operation 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.3 InstantiateVNFTask

##### 6.3.5.3.1 POST Instantiate a vnfInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.3.1 |
| **Test title** | POST Instantiate a vnfInstance |
| **Test objective** | The objective is to instantiate a VNF instance |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.4.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST instantiate individual vnfInstance  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/InstantiateVNFTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.3.2 POST Instantiate a vnfInstance Conflict

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.3.2 |
| **Test title** | POST Instantiate a vnfInstance Conflict |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST instantiate 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/InstantiateVNFTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.3.3 |
| **Test title** | GET Instantiate VNFInstance - Method not implemented |
| **Test objective** | The objective is to test that GET method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.4.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.3.4 |
| **Test title** | PUT Instantiate VNFInstance - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.4.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.3.5 |
| **Test title** | PATCH Instantiate VNFInstance - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.4.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.3.6 |
| **Test title** | DELETE Instantiate VNFInstance - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.4.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.4 ScaleVNFTask

##### 6.3.5.4.1 POST Scale a vnfInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.4.1 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Scale vnfInstance 0 Check HTTP Response Status Code Is 202 Check Operation Occurrence Id | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.4.2 |
| **Test title** | POST Scale a vnfInstance Conflict (Not-Instantiated) |
| **Test objective** | The objective is to verify that the operation cannot be executed currently, due to a conflict with the state of the VNF instance resource. |
| **Pre-conditions** | VNF instance resource is in NOT-INSTANTIATED state |
| **Reference** | Clause 5.4.5.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Scale vnfInstance 1 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.4.3 POST Scale a vnfInstance Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.4.3 |
| **Test title** | POST Scale a vnfInstance Not Found |
| **Test objective** | The objective is to verify that the operation cannot be executed currently, due to a conflict with the state of the VNF instance resource. |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.5.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Scale vnfInstance 2 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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.4.4 |
| **Test title** | GET Scale VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.5.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.4.5 |
| **Test title** | PUT Scale VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.5.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.4.6 |
| **Test title** | PATCH Scale VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.5.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.4.7 |
| **Test title** | DELETE Scale VNFInstance - Method not implemented |
| **Test objective** | The objective is to verify that the method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.5.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.5 ScaleVNFToLevelTask

##### 6.3.5.5.1 POST Scale a vnfInstance to level

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.5.1 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Scale vnfInstance to level  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ScaleVNFToLevelTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.5.2 |
| **Test title** | POST Scale a vnfInstance to level Conflict (Not-Instantiated) |
| **Test objective** | The objective is to verify that the operation cannot be executed currently, due to a conflict with the state of the VNF instance resource or that a required child attribute of the "extensions" attribue has not been set. |
| **Pre-conditions** | VNF instance resource is in NOT-INSTANTIATED state |
| **Reference** | Clause 5.4.6.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.5.3 POST Scale a vnfInstance Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.5.3 |
| **Test title** | POST Scale a vnfInstance Not Found |
| **Test objective** | The objective is to verify that the VNF Scale operation fails when the VNF instance resource is not present |
| **Pre-conditions** | VNF instance resource is in NOT-INSTANTIATED state |
| **Reference** | Clause 5.4.6.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Scale vnfInstance to level  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/ScaleVNFToLevelTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.5.4 |
| **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** | none |
| **Reference** | Clause 5.4.6.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.5.5 |
| **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** | none |
| **Reference** | Clause 5.4.6.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.5.6 |
| **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** | none |
| **Reference** | Clause 5.4.6.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.5.7 |
| **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** | none |
| **Reference** | Clause 5.4.6.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.6 ChangeVNFFlavourTask

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.6.1 |
| **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** | none |
| **Reference** | Clause 5.4.7.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeVNFFlavourTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.6.2 |
| **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 or that a required child attribute of the "extensions" attribue has not been set. |
| **Pre-conditions** | VNF instance resource is not in NOT-INSTANTIATED state |
| **Reference** | Clause 5.4.7.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.6.3 |
| **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** | VNF instance resource is not in NOT-INSTANTIATED state |
| **Reference** | Clause 5.4.7.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.6.4 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.6.5 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.6.6 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.6.7 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.7 TerminateVNFTask

##### 6.3.5.7.1 POST Terminate a vnfInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.7.1 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Terminate VNF  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/TerminateVNFTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.7.2 |
| **Test title** | POST Terminate 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 or that a required child attribute of the "extensions" attribue has not been set. |
| **Pre-conditions** | VNF instance resource is in NOT\_INSTANTIATED state |
| **Reference** | Clause 5.4.8.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.7.3 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.7.4 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.7.5 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.7.6 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.8 HealVNFTask

##### 6.3.5.8.1 POST Heal a vnfInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.8.1 |
| **Test title** | POST Heal a vnfInstance |
| **Test objective** | The objective is to test that POST method heal a VNF instance |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.9.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Heal VNF  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/HealVNFTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.8.2 |
| **Test title** | POST Heal a vnfInstance (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 or that a required child attribute of the "extensions" attribue has not been set. |
| **Pre-conditions** | the VNF instance resource is in NOT-INSTANTIATED state |
| **Reference** | Clause 5.4.9.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.8.3 POST Heal a vnfInstance Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.8.3 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.8.4 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.8.5 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.8.6 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.8.7 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.9 OperateVNFTask

##### 6.3.5.9.1 POST Operate a vnfInstance

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.9.1 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Operate VNF  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/OperateVNFTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.9.2 |
| **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 or that a required child attribute of the "extensions" attribue has not been set. |
| **Pre-conditions** | the VNF instance resource is in NOT\_INSTANTIATED state |
| **Reference** | Clause 5.4.10.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.9.3 POST Operate a vnfInstance Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.9.3 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Operate 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/OperateVNFTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.9.4 |
| **Test title** | GET Operate 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.9.5 |
| **Test title** | PUT Operate 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.9.6 |
| **Test title** | PATCH Operate 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.9.7 |
| **Test title** | DELETE Operate 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.10 ChangeExternalVNFConnectivityTask

##### 6.3.5.10.1 POST Change external VNF connectivity

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.10.1 |
| **Test title** | POST Change external VNF connectivity |
| **Test objective** | The objective is to test that POST method triggers a change in VNF external connectivity |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.11.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ChangeExternalVNFConnectivityTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.10.2 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.10.3 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.10.4 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.10.5 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.10.6 POST Change external VNF connectivity Conflict

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.10.6 |
| **Test title** | POST Change external VNF connectivity Conflict |
| **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 or that a required child attribute of the "extensions" attribue has not been set. |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.11.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Change External VNF Connectivity  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/ChangeExternalVNFConnectivityTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.11 VnfLcmOperationOccurences

##### 6.3.5.11.1 POST VNF LCM operation occurrences - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.11.1 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post VNF LCM OP 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.11.2 GET status information about multiple VNF LCM operation occurrences

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.11.2 |
| **Test title** | GET status information about multiple VNF LCM operation occurrences |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF LCM OP occurrences  Check HTTP Response Status Code Is 202 Check HTTP Response Body Json Schema Is VnfLcmOpOccs Check HTTP Response Body vnf LCM OpOCCs content against VNF Descriptor | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfLcmOperationOccurences.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.11.3 GET status information about multiple VNF LCM operation occurrences Bad Request Invalid attribute-based filtering parameters

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.11.3 |
| **Test title** | GET status information about multiple VNF LCM operation occurrences 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF LCM OP 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.11.4 GET status information about multiple VNF LCM Operation occurrences Bad Request Invalid attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.11.4 |
| **Test title** | GET status information about multiple VNF LCM Operation occurrences 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF LCM OP 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.11.5 GET status information about multiple VNF LCM Operation occurrences with "all\_fields"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.11.5 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF LCM Operation occurrences with all\_fields attribute selector  Check HTTP Response Status Code Is 202 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.11.6 GET status information about multiple VNF LCM Operation occurrences with "exlude\_default"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.11.6 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF LCM Operation occurrences with exclude\_default attribute selector  Check HTTP Response Status Code Is 202 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.11.7 GET status information about multiple VNF LCM Operation occurrences with "fields"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.11.7 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF LCM Operation occurrences with fields attribute selector  Check HTTP Response Status Code Is 202 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.11.8 GET status information about multiple VNF LCM Operation occurrences with "exclude\_fields"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.11.8 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF LCM Operation occurrences with exclude\_fields attribute selector  Check HTTP Response Status Code Is 202 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.11.9 PUT status information about multiple VNF LCM operation occurrences - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.11.9 |
| **Test title** | PUT status information about multiple 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 5.4.12.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT VNF LCM OP 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.11.10 PATCH status information about multiple VNF LCM operation occurrences - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.11.10 |
| **Test title** | PATCH status information about multiple 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 5.4.12.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH VNF LCM OP 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.11.11 DELETE status information about multiple VNF LCM operation occurrences - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.11.11 |
| **Test title** | DELETE status information about multiple 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 5.4.12.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE VNF LCM OP 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.11.12 GET status information about multiple VNF LCM operation occurances to get Paged Response

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.11.12 |
| **Test title** | GET status information about multiple VNF LCM operation occurances to get Paged Response |
| **Test objective** | The objective is to test that GET method retrieve Query status information about multiple VNF lifecycle management operation occurrences to get paged response. |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.12.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF LCM OP occurrences  Check HTTP Response Status Code Is 200 Check HTTP Response Header Contain Link | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/VnfLcmOperationOccurences.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.11.13 GET status information about multiple VNF LCM Operation occurrences Bad Request Response too big

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.11.13 |
| **Test title** | GET status information about multiple VNF LCM Operation occurrences Bad Request Response too big |
| **Test objective** | The objective is to test that GET method fail retrieving status information about multiple VNF lifecycle management operation occurrences because Response is too big. |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.12.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET VNF LCM OP occurrences  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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.11.14 GET status information about multiple VNF LCM Operation occurrences with "exlude\_default" and "fields"

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.11.14 |
| **Test title** | GET status information about multiple VNF LCM Operation OCC with "exclude\_default" and "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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get VNF LCM Operation occurrences with exclude\_default and fields attribute selector  Check HTTP Response Status Code Is 202 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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.12 IndividualVnfLcmOperationOccurence

##### 6.3.5.12.1 Post Individual VNF LCM OP occurrences - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.12.1 |
| **Test title** | Post Individual VNF LCM OP 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Individual VNF LCM OP 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.12.2 Get status information about multiple VNF instances

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.12.2 |
| **Test title** | Get status information about multiple VNF instances |
| **Test objective** | The objective is to test that this method retrieve status information about a VNF lifecycle management operation occurrence |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.13.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Get Individual VNF LCM OP occurrences  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is vnfLcmOpOcc Check HTTP Response Body vnf LCM OpOCC content against VNF Descriptor | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualVnfLcmOperationOccurence.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.12.3 PUT status information about multiple VNF instances - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.12.3 |
| **Test title** | PUT status information about multiple VNF instances - 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT Individual VNF LCM OP 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.12.4 PATCH status information about multiple VNF instances - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.12.4 |
| **Test title** | PATCH status information about multiple VNF instances - 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH Individual VNF LCM OP 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.12.5 DELETE status information about multiple VNF instances - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.12.5 |
| **Test title** | DELETE status information about multiple VNF instances - 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE Individual VNF LCM OP 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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.13 RetryOperationTask

##### 6.3.5.13.1 POST Retry operation task

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.13.1 |
| **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 that operation has experienced a temporary failure |
| **Pre-conditions** | the "VNF LCM operation occurrence" resource is in "FAILED\_TEMP" state. |
| **Reference** | Clause 5.4.14.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Retry operation  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RetryOperationTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.13.2 POST Retry operation task Conflict (Not-FAILED\_TEMP)

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.13.2 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.13.3 POST Retry operation task Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.13.3 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Retry operation  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/RetryOperationTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.13.4 |
| **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 5.4.14.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.13.5 |
| **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 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.13.6 |
| **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 5.4.14.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.13.7 |
| **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 5.4.14.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.14 RollbackOperationTask

##### 6.3.5.14.1 POST Rollback operation task

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.14.1 |
| **Test title** | POST Rollback operation task |
| **Test objective** | The objective is to test that POST method initiates rollback a VNF lifecycle operation if that operation has experienced a temporary failure |
| **Pre-conditions** | the "VNF LCM operation occurrence" resource is in "FAILED\_TEMP" state. |
| **Reference** | Clause 5.4.15.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Rollback operation  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/RollbackOperationTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.14.2 |
| **Test title** | POST Rollback operation task Conflict (Not-FAILED\_TEMP) |
| **Test objective** | The objective is to test that POST method The POST method initiates rollback a VNF lifecycle operation if that operation has experienced a temporary failure |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.14.3 POST Rollback operation task Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.14.3 |
| **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** | none |
| **Reference** | Clause 5.4.15.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Rollback operation  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/RollbackOperationTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.14.4 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.14.5 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.14.6 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.14.7 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.15 FailOperationTask

##### 6.3.5.15.1 POST Fail operation task

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.15.1 |
| **Test title** | POST Fail operation task |
| **Test objective** | The objective is to test that POST method mark as "finally failed" a VNF lifecycle operation if that operation has experienced a failure |
| **Pre-conditions** | the "VNF LCM operation occurrence" resource is in "FAILED\_TEMP" state. |
| **Reference** | Clause 5.4.16.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Fail operation  Check HTTP Response Status Code Is 202 Check Operation Occurrence Id  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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.15.2 POST Fail operation task Conflict (Not-FAILED\_TEMP)

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.15.2 |
| **Test title** | POST Fail operation task Conflict (Not-FAILED\_TEMP) |
| **Test objective** | The objective is to test that POST method cannot mark as "finally failed" due to confilct with the state of LCM Operation Occurrence |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.15.3 POST Fail operation task Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.15.3 |
| **Test title** | POST Fail operation task Not Found |
| **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** | none |
| **Reference** | Clause 5.4.16.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Fail operation  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/FailOperationTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.15.4 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.15.5 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.15.6 |
| **Test title** | PATCH 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.15.7 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.16 CancelOperationTask

##### 6.3.5.16.1 Post Cancel operation task

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.16.1 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | the resource is in FAILED\_TEMP state |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.16.2 Post Cancel operation task Conflict

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.16.2 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.16.3 Post Cancel operation task Not Found

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.16.3 |
| **Test title** | POST Cancel operation task |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST Cancel operation task  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/CancelOperationTask.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.16.4 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.16.5 |
| **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 5.4.17.3.3 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.16.6 |
| **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 5.4.17.3.4 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.16.7 |
| **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 5.4.17.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.17 Subscriptions

##### 6.3.5.17.1 POST Create a new subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.1 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.17.2 POST Create a new Subscription - DUPLICATION

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.2 |
| **Test title** | POST Create a new subscription - DUPLICATION |
| **Test objective** | The POST method creates a new subscription even if an existing subscription to same content exist |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.18.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | SUT should support duplication of subscription creation |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.17.3 POST Create a new Subscription - NO-DUPLICATION

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.3 |
| **Test title** | POST Create a new subscription - NO-DUPLICATION |
| **Test objective** | The POST method creates a new subscription even if an existing subscription to same content exist |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.18.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | SUT should not support duplication of subscription creation |
| **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 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.17.4 GET Subscriptions

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.4 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.17.5 GET Subscription - Filter

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.5 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.6 |
| **Test title** | GET subscriptions - Bad Request Invalid attribute-based filtering parameters |
| **Test objective** | The objective is Get the list of active subscriptions using a filter |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.18.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.7 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.8 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.17.9 GET subscriptions with fields attribute selector

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.9 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.10 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.17.11 PUT subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.11 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.17.12 PATCH subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.12 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.17.13 DELETE subscriptions - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.13 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | check that resources are not deleted |
| **Test Case** | |
| DELETE subscriptions  Check HTTP Response Status Code Is 405 Check Subscription resource exist | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.17.14 POST Create a new Subscription - Unprocessable Entity

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.14 |
| **Test title** | POST Create a new Subscription - Unprocessable Entity |
| **Test objective** | The objective is to test that content type of the payload body is supported and the payload body of a request contains syntactically correct data but the data cannot be processed. |
| **re-conditions** | none |
| **Reference** | Clause 5.4.18.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post Create subscription  Check HTTP Response Status Code Is 422 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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.17.15 GET information about multiple subscriptions to get Paged Response

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.15 |
| **Test title** | GET information about multiple subscriptions to get Paged Response |
| **Test objective** | The objective is to retrieve information about the subscriptions to get paged response |
| **Pre-conditions** |  |
| **Reference** | Clause 5.4.18.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| Get subscriptions  Check HTTP Response Status Code Is 200 Check HTTP Response Header Contain Link | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/Subscriptions.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.17.16 GET information about multiple subscriptions for Bad Request Response too big

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.17.16 |
| **Test title** | GET information about multiple subscriptions for Bad Request Response too big |
| **Test objective** | The objective is to test that GET method fail retrieving status information about subscriptions when Response is too big, and perform the JSON schema validation of the failed operation HTTP response |
| **Pre-conditions** |  |
| **Reference** | Clause 5.4.18.3.2 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** |  |
| **Post-Conditions** |  |
| **Test Case** | |
| Get subscriptions  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/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.18 IndividualSubscription

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.18.1 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.18.2 GET Individual Subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.18.2 |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.18.3 |
| **Test title** | PUT 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

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

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.18.4 |
| **Test title** | PATCH 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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **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/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.18.5 DELETE an individual subscription

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.18.5 |
| **Test title** | DELETE Individual Subscription |
| **Test objective** | The objective is to test that the DELETE method removes an individual subscription |
| **Pre-conditions** | none |
| **Reference** | Clause 5.4.19.3.5 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_VE |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Delete Individual subscription  Check HTTP Response Status Code Is 204 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/IndividualSubscription.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.19 Notifications

##### 6.3.5.19.1 VNF LCM Operation Occurrence Start Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.19.1 |
| **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 002 [2] v3.3.1 |
| **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/Notifications.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.19.2 VNF LCM Operation Occurrence Result Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.19.2 |
| **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 002 [2] v3.3.1 |
| **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/Notifications.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.19.3 VNF Identifier Creation Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.19.3 |
| **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 002 [2] v3.3.1 |
| **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/Notifications.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.19.4 VNF Identifier Deletion Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.19.4 |
| **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 002 [2] v3.3.1 |
| **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/Notifications.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.20 ApiVersion

##### 6.3.5.20.1 POST API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.20.1 |
| **Test title** | POST API version - Method not implemented |
| **Test objective** | The objective is to test that POST method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.1 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.20.2 GET API Version

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.20.2 |
| **Test title** | GET API Version |
| **Test objective** | The objective is to test that GET method successfully return ApiVersionInformation |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.2 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET API Version  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is ApiVersionInformation | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.20.3 PUT API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.20.3 |
| **Test title** | PUT API Version - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.3 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.20.4 PATCH API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.20.4 |
| **Test title** | PATCH API Version - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.4 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.20.5 DELETE API Version - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.20.5 |
| **Test title** | DELETE API Version - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.5 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.20.6 POST API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.20.6 |
| **Test title** | POST API version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that POST method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.1 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| POST API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.20.7 GET API Version with apiMajorVerion

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.20.7 |
| **Test title** | GET API Version with apiMajorVerion |
| **Test objective** | The objective is to test that GET method successfully return ApiVersionInformation |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.2 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| GET API Version  Check HTTP Response Status Code Is 200 Check HTTP Response Body Json Schema Is ApiVersionInformation | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.20.8 PUT API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.20.8 |
| **Test title** | PUT API Version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that PUT method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.3 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PUT API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.20.9 PATCH API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.20.9 |
| **Test title** | PATCH API Version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that PATCH method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.4 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| PATCH API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.20.10 DELETE API Version with apiMajorVerion - Method not implemented

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.20.10 |
| **Test title** | DELETE API Version with apiMajorVerion - Method not implemented |
| **Test objective** | The objective is to test that DELETE method is not implemented |
| **Pre-conditions** | none |
| **Reference** | Clause 9.3.3.3.5 - ETSI GS NFV-SOL 013 v3.3.1 |
| **Config ID** | Config\_prod\_VNFM |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| DELETE API Version  Check HTTP Response Status Code Is 405 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/ApiVersion.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

#### 6.3.5.21 NotificationEndpoint

##### 6.3.5.21.1 VNF LCM Operation Occurrence Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.21.1 |
| **Test title** | VNF LCM Operation Occurrence Start Notification |
| **Test objective** | The objective is to test that VNF LCM Operation Occurrence Notification is delivered with success to the notification consumer |
| **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 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_Notif\_Endpoint |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post VNF LCM Operation Occurrence Notification  Check HTTP Response Status Code Is 204 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.21.2 VNF Identifier Creation Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.21.2 |
| **Test title** | VNF Identifier Creation Notification |
| **Test objective** | The objective is to test that VNF Identifier Creation Notification is delivered with success to the notification consumer |
| **Pre-conditions** | A subscription for VNF Identifier Creation Notification is available in the VNFM. |
| **Reference** | Clause 5.4.20.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_Notif\_Endpoint |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post VNF Identifier Creation Notification  Check HTTP Response Status Code Is 204 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/c2b872a/SOL002/VNFLifecycleManagement-API>

##### 6.3.5.21.3 VNF Identifier Deletion Notification

|  |  |
| --- | --- |
| **Test Purpose** | |
| **Test ID** | 6.3.5.21.3 |
| **Test title** | VNF Identifier Deletion Notification |
| **Test objective** | The objective is to test that VNF Identifier Deletion Notification is delivered with success to the notification consumer |
| **Pre-conditions** | A subscription for VNF Identifier Deletion Notification is available in the VNFM. |
| **Reference** | Clause 5.4.20.3.1 - ETSI GS NFV-SOL 002 [2] v3.3.1 |
| **Config ID** | Config\_prod\_Notif\_Endpoint |
| **Applicability** | none |
| **Post-Conditions** | none |
| **Test Case** | |
| Post VNF Identifier Deletion Notification  Check HTTP Response Status Code Is 204 | |

NOTE: Robot code can be found at <https://forge.etsi.org/rep/nfv/api-tests/raw/NotificationEndpoint.robot/c2b872a/SOL002/VNFLifecycleManagement-API>