HP NFV Director

HP NFV Director

Version 3.0

API Reference Guide

Edition: 1.0

For Red Hat Enterprise Linux Server 6.6

June 2015

© Copyright 2015 Hewlett-Packard Development Company, L.P.

Legal Notices

Warranty

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

License Requirement and U.S. Government Legend

Confidential computer software. Valid license from HP required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Copyright Notices

© Copyright 2015 Hewlett-Packard Development Company, L.P.

Trademark Notices

Adobe®, Acrobat® and PostScript® are trademarks of Adobe Systems Incorporated.

HP-UX Release 10.20 and later and HP-UX Release 11.00 and later (in both 32 and 64-bit configurations) on all HP 9000 computers are Open Group UNIX 95 branded products.

Java™ is a trademark of Oracle and/or its affiliates.

Microsoft®, Internet Explorer, Windows®, Windows Server 2007®, Windows XP®, and Windows 7® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Firefox® is a registered trademark of the Mozilla Foundation.

Google Chrome® is a trademark of Google Inc.

Oracle® is a registered U.S. trademark of Oracle Corporation, Redwood City, California.

EnterpriseDB® is a registered trademark of EnterpriseDB.

Postgres Plus® Advanced Server is a registered U.S. trademark of EnterpriseDB.

UNIX® is a registered trademark of The Open Group.

X/Open® is a registered trademark, and the X device is a trademark of X/Open Company Ltd. in the UK and other countries.

Red Hat® is a registered trademark of the Red Hat Company.

Linux® is a registered trademark of Linus Torvalds in the U.S. and other countries.

Neo4j is a trademark of Neo Technology.

Contents

Legal Notices **2**

Contents **3**

Preface **8**

In this Guide 8
Audience 8
Typographical Conventions 8

Chapter 1 ..... **9**

Introduction **9**

Chapter 2 ..... **10**

Definitions **10**

2.1 Get all definitions 10
2.1.1 XML 10
2.1.2 JSON 13
2.2 Create definitions 17
2.2.1 XML 17
2.2.2 JSON 20
2.3 Update definitions 25
2.3.1 XML 25
2.3.2 JSON 28
2.4 Artifacts 33
2.4.1 Get artifact definition by id 33
2.4.2 Get artifact definition detail by id 37
2.4.3 Get artifact definition list by definition parameters 41
2.4.4 Create a list of artifact definition 49
2.4.5 Update an artifact definition by id 63
2.4.6 Update a list of artifact definition 69
2.4.7 Delete artifact definition by id 79
2.4.8 Delete artifact definition by definition parameters 80
2.5 Relationships 81
2.5.1 Get relationship definition by id 81
2.5.2 Get relationship definition list by definition parameters 84
2.5.3 Create a list of relationship definition 87
2.5.4 Update a relationship definition by id 91
2.5.5 Update a list of relationship definition 95
2.5.6 Delete relationship definition by id 99
2.5.7 Delete relationship definition by definition parameters 100

Chapter 3 ..... **101**

Templates **101**

3.1 Get template from date 101
3.1.1 XML 101
3.1.2 JSON....102
3.2 Get template elements recursively 104
3.2.1 XML 104
3.2.2 JSON....105
3.3 Get trees ids 107
3.3.1 XML 107
3.3.2 JSON....107
3.4 Get template by tree id 109
3.4.1 XML 109
3.4.2 JSON....110
3.5 Download tree....112
3.5.1 XML 112
3.5.2 JSON....114
3.6 Create template 118
3.6.1 XML 118
3.6.2 JSON....122
3.7 Create template tree....127
3.7.1 XML 127
3.7.2 JSON....129
3.8 Create tree UUID....132
3.8.1 XML 132
3.8.2 JSON....132
3.9 Upload tree....134
3.9.1 XML 134
3.9.2 JSON....139
3.10 Upload Partial tree 152
3.10.1 XML 152
3.10.2 JSON....155
3.11 Update template 167
3.11.1 XML 167
3.11.2 JSON....170
3.12 Update template tree....176
3.12.1 XML 176
3.12.2 JSON....177
3.13 Delete template tree....181
3.13.1 XML- JSON 181
3.14 Delete tree and content 182
3.14.1 XML - JSON....182
3.15 Delete element from tree 183
3.15.1 XML - JSON....183
3.16 Artifacts....184
3.16.1 Get artifact templates by parameters 184
3.16.2 Get artifact templates by parameters (paginated)....187
3.16.3 Get artifact template by id 190
3.16.4 Get artifact template by path....192
3.16.5 Get parents of an artifact 194
3.16.6 Get parents of an artifact recursively 196
3.16.7 Get children of an artifact....199
3.16.8 Get children of an artifact recursively....200

3.16.9 Get tree ids 203
3.16.10 Get by misc parameters 205
3.16.11 Get attribute by parameters 208
3.16.12 Download all template artifacts 210
3.16.13 Create artifacts template 213
3.16.14 Create artifacts template with new UUID....217
3.16.15 Create artifact template category....219
3.16.16 Create artifact template attribute 224
3.16.17 Update artifacts template 228
3.16.18 Update category of artifact template 231
3.16.19 Update attribute of artifact template 235
3.16.20 Delete artifact template by id 239
3.16.21 Delete Category of artifact template 240
3.16.22 Delete attribute of artifact template 241
3.17 Relationships 242
3.17.1 Get relationships template 242
3.17.2 Get relationship template by id....244
3.17.3 Get tree ids 246
3.17.4 Get attribute by parameters 248
3.17.5 Create relationship template 250
3.17.6 Create relationship template category 255
3.17.7 Create relationship template attribute 257
3.17.8 Download all instance relationships 261
3.17.9 Update relationship template 264
3.17.10 Update category of relationship template....269
3.17.11 Update attribute of relationship template 273
3.17.12 Delete relationship template by id....276
3.17.13 Delete relationship template by parameters 277
3.17.14 Delete Category of relationship template 278
3.17.15 Delete attribute of relationship template....279

Chapter 4....280

Instances 280

4.1 Get instances from date....280
4.1.1 XML 280
4.1.2 JSON....281
4.2 Gets instances recursively 283
4.2.1 XML 283
4.2.2 JSON....284
4.3 Get instance tree from id 286
4.3.1 XML 286
4.3.2 JSON....287
4.4 Get instance uuid list....290
4.4.1 XML 290
4.4.2 JSON....290
4.5 Download tree....292
4.5.1 XML 292
4.5.2 JSON....294
4.6 Create a new Instance 298
4.6.1 XML 298

4.6.2 JSON 314
4.7 Create new Instance tree. 335
4.7.1 XML 335
4.7.2 JSON 336
4.8 Create new Instance tree UUID 338
4.8.1 XML 338
4.8.2 JSON 338
4.9 Upload tree 340
4.9.1 XML 340
4.9.2 JSON 351
4.10 Update Instance 365
4.10.1 XML 365
4.10.2 JSON 367
4.11 Update an instance tree 372
4.11.1 XML 372
4.11.2 JSON 373
4.12 Delete tree by id 375
4.12.1 XML – JSON 375
4.13 Delete tree and its content by id 375
4.13.1 XML – JSON 375
4.14 Delete a instance tree by tree id and element id 376
4.14.1 XML – JSON 376
4.15 Artifacts 377
4.15.1 Get an artifact instance by path 377
4.15.2 Get artifact's parents 380
4.15.3 Get artifact's children 383
4.15.4 Get artifact's parents recursively 386
4.15.5 Get artifact's children recursively 389
4.15.6 Get instance artifacts by miscellaneous parameters 393
4.15.7 Get instance artifact by Id 396
4.15.8 Get instance artifact by parameters 399
4.15.9 Get tree ids 402
4.15.10 Get an artifact instance attribute 404
4.15.11 Create Artifact Instance 406
4.15.12 Create ArtifactInsance with a new UUID 413
4.15.13 Create new attribute value 421
4.15.14 Update Artifact Instance 424
4.15.15 Update attribute value 432
4.15.16 Delete artifact instance by id 438
4.15.17 Delete attribute 439
4.16 Relationships 440
4.16.1 Get relationship instance by parameters 440
4.16.2 Get relationship instance by ID 442
4.16.3 Get tree ids 444
4.16.4 Get an relationship instance attribute 446
4.16.5 Create a relationship instance 448
4.16.6 Create new attribute 452
4.16.7 Update Instance Relationship 455
4.16.8 Update attribute 459
4.16.9 Delete instance relationship by id 462
4.16.10 Delete by parameters 463

4.16.11 Delete Attribute 464

Chapter 5 465

Assurance APIs 465

5.1 KPI 465
5.2 Capacity 465
5.3 Operation Status 466

Chapter 6 467

Analytics APIs 467

6.1 Assurance Capacity Snapshot 467

Preface

In this Guide

The aim of this document is to provide some overview and examples of NFV Director REST API.

Audience

This is document is intended for developers and system administrators.

Typographical Conventions

`Courier` Font:

- *Source code and examples of file contents.*
- *Commands that you enter on the screen.*
- *Pathnames*
- *Keyboard* key names

Italic Text:

- Filenames, *programs and parameters.*
- *The names of oth*er documents referenced in this manual.

Bold Text:

- To introduce new terms and to emphasize important words.

Chapter 1

Introduction

Basic knowledge in REST or HTTP is a must to fully understand the concepts and examples.
This document is divided by three main blocks:

- the first one, related to manage NFVD definitions (such as artifact and relationship definitions)
- then, related to the concept of NFVD templates
- finally, you will find examples of NFVD instances

Every exposed case is described in a table that contains the following information:

Description	*Brief description of the operation*	
HTTP method	*HTTP method used in the operation (such as GET, POST, PUT, DELETE and so on)*	
Resource	*URI identifying the resource. For instance: /nfvd/instance/{id}. Note that every parameter inside {} are variables in the request.*	
Query Parameters	*Query parameter name. Ex: family*	*Is the parameter mandatory or optional? Default value? Ex: Optional (default=null), Optional (default=true), Mandatory,*
Relevant Headers	*Specify relevant headers in HTTP request: Ex: Content-type: application/xml, Accept: application/json*	
	...	
Request Body	*If the request is a POST or PUT, it may contains either and XML or a JSON representing the data*	
RAW request example	*This cell will contain the HTTP raw request representation. This means that you will tell every different detail of the underlying HTTP request (such as URL, headers, parameters and content)*	
RAW Success response example	*This cell will contain the success HTTP raw response representation. This means that you will tell every different detail of the underlying HTTP request (such as URL, headers, parameters and content)*	
Possible errors	*Error case description* 1	
	Error case description N	

Chapter 2

Definitions

In this chapter you will find all operations related to Definitions.

2.1 Get all definitions

2.1.1 XML

Description	Get all definitions (artifacts and relationships) in XML format
HTTP method	GET
Resource	/nfvd/definition
Query Parameters	Not needed
Relevant Headers	Accept: application/xml
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/definition HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Transfer-Encoding: chunked Date: Thu, 07 May 2015 11:18:40 GMT <definitions xmlns="http://www.hp.com/nfvd"> <artifact-definitions> <artifact-definition id="1009" uri="/nfvd/definition/artifact/1009"> <categories> <category> <attributes> <attribute> <label>Operational_Status</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>LifeCycle_State_Date</label> <mandatory>false</mandatory> <order>5</order>

```
                <type>Date</type>
                <unit>Date</unit>
              </attribute>
            </attributes>
            <label>STATUS</label>
            <order>2</order>
          </category>
……————————..
……————————..
          <category>
            <attributes>
              <attribute>
                <label>Login</label>
                <default-value>Login user information</default-value>
                <mandatory>true</mandatory>
                <order>1</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
              </attribute>
              <attribute>
                <label>Password</label>
                <default-value>Password to login</default-value>
                <mandatory>true</mandatory>
                <order>2</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
              </attribute>
            </attributes>
            <label>CREDENTIALS</label>
            <order>3</order>
          </category>
        </categories>
        <available-status>
          <status>
            <enabled>true</enabled>
            <label>ENABLED</label>
            <visible-label>ENABLED</visible-label>
          </status>
          <status>
            <enabled>true</enabled>
            <label>PROVISIONED</label>
            <visible-label>PROVISIONED</visible-label>
          </status>
          <status>
            <enabled>true</enabled>
            <label>DESIGNED</label>
            <visible-label>DESIGNED</visible-label>
          </status>
          <status>
            <enabled>true</enabled>
            <label>INSTANTIATED</label>
            <visible-label>INSTANTIATED</visible-label>
          </status>
        </available-status>
        <category>OPENSTACK</category>
        <enabled>true</enabled>
        <family>VIM</family>
        <physical>false</physical>
      </artifact-definition>
……————————————..
……————————————————
    </artifact-definitions>
    <relationship-definitions>
```

```
<relationship-definition id="755" uri="/nfvd/definition/relationship/755">
  <child-artifact-definition>
    <category>PROCESSING_ACTION</category>
    <family>POLICY</family>
  </child-artifact-definition>
  <enabled>true</enabled>
  <parent-artifact-definition>
    <category>PROCESSING_TREE</category>
    <family>POLICY</family>
  </parent-artifact-definition>
  <categories/>
  <available-status>
    <status>
      <enabled>true</enabled>
      <label>ENABLED</label>
      <visible-label>ENABLED</visible-label>
    </status>
    <status>
      <enabled>true</enabled>
      <label>DISABLED</label>
      <visible-label>ENABLED</visible-label>
    </status>
  </available-status>
  <type>EXECUTE</type>
</relationship-definition>
<relationship-definition id="756" uri="/nfvd/definition/relationship/756">
  <child-artifact-definition>
    <category>GENERIC</category>
    <family>DISK</family>
  </child-artifact-definition>
  <enabled>true</enabled>
  <parent-artifact-definition>
    <category>OVER_SUBCRIPTION</category>
    <family>POLICY</family>
  </parent-artifact-definition>
  <categories/>
  <available-status>
    <status>
      <enabled>true</enabled>
      <label>DISABLED</label>
      <visible-label>ENABLED</visible-label>
    </status>
    <status>
      <enabled>true</enabled>
      <label>ENABLED</label>
      <visible-label>ENABLED</visible-label>
    </status>
  </available-status>
  <type>APPLY</type>
</relationship-definition>
<relationship-definition id="759" uri="/nfvd/definition/relationship/759">
  <child-artifact-definition>
    <category>GENERIC</category>
    <family>VIRTUAL_CORE</family>
  </child-artifact-definition>
  <enabled>true</enabled>
  <parent-artifact-definition>
    <category>OVER_SUBCRIPTION</category>
    <family>POLICY</family>
  </parent-artifact-definition>
  <categories/>
  <available-status>
    <status>
```

	<enabled>true</enabled> <label>DISABLED</label> <visible-label>ENABLED</visible-label> </status> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> </available-status> <type>APPLY</type> </relationship-definition> …….. …….. </relationship-definitions> </definitions>
Possible errors	500 Internal server error: An unexpected error occurred processing the request

2.1.2 JSON

Description	Get all definitions (artifacts and relationships) in JSON format
HTTP method	GET
Resource	/nfvd/definition
Query Parameters	Not needed
Relevant Headers	`Accept: application/json`
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/definition HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Thu, 07 May 2015 11:38:48 GMT { "language-code": null, "artifact-definitions": [{ "family": "VNF_COMPONENT_TEST", "category": "GENERIC_TEST", "group": null, "type": null, "subtype": null, "version": null, "physical": false, "enabled": false, "available-status": [

```
                {
        "enabled": true,
        "label": "FAILED",
        "visible-label": "FAILED"
      },
                {
        "enabled": true,
        "label": "OK",
        "visible-label": "OK"
      }
    ],
    "categories":         [
                {
        "order": 2,
        "attributes": [              {
          "order": 1,
          "mandatory": true,
          "description": "att1 description",
          "type": "Integer",
          "unit": "GHZ",
          "label": "att1",
          "default-value": "att1 default"
        }],
        "label": "CAT2"
      },
                {
        "order": 1,
        "attributes":               [
                            {
            "order": 2,
            "mandatory": true,
            "description": "att2 description",
            "type": "String",
            "unit": "MB",
            "label": "att2",
            "default-value": "att2 default"
          },
                            {
            "order": 1,
            "mandatory": true,
            "description": "att1 description",
            "type": "Integer",
            "unit": "MB",
            "label": "att1",
            "default-value": "att1 default"
          }
        ],
        "label": "CAT"
      }
    ],
    "@uri": "/nfvd/definition/artifact/1043",
    "@id": "1043"
  },
      {
    "family": "VM_TEST",
    "category": "GENERIC_TEST",
    "group": null,
    "type": null,
    "subtype": null,
    "version": null,
    "physical": false,
    "enabled": true,
    "available-status":         [
```

```
                {
            "enabled": true,
            "label": "4",
            "visible-label": "4"
          },
                {
            "enabled": true,
            "label": "3",
            "visible-label": "3"
          }
        ],
        "categories": [        {
          "order": 1,
          "attributes": [          {
            "order": 1,
            "mandatory": true,
            "description": "asdasd",
            "type": "Integerwerw",
            "unit": "MBq",
            "label": "test1",
            "default-value": "adasd"
          }],
          "label": "TEST"
        }],
        "@uri": "/nfvd/definition/artifact/1044",
        "@id": "1044"
      }
……….
……..
  ],
  "relationship-definitions":    [
          {
        "type": "APPLY",
        "enabled": true,
        "parent-artifact-definition":         {
          "family": "POLICY",
          "category": "OVER_SUBCRIPTION",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "child-artifact-definition":         {
          "family": "MEMORY",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "available-status":         [
                {
            "enabled": true,
            "label": "DISABLED",
            "visible-label": "ENABLED"
          },
                {
            "enabled": true,
            "label": "ENABLED",
            "visible-label": "ENABLED"
          }
        ],
        "categories": [],
```

```
        "@uri": "/nfvd/definition/relationship/758",
        "@id": "758"
      },
          {
        "type": "APPLY",
        "enabled": true,
        "parent-artifact-definition":          {
          "family": "POLICY",
          "category": "OVER_SUBCRIPTION",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "child-artifact-definition":          {
          "family": "VIRTUAL_CORE",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "available-status":          [
                    {
            "enabled": true,
            "label": "DISABLED",
            "visible-label": "ENABLED"
          },
                    {
            "enabled": true,
            "label": "ENABLED",
            "visible-label": "ENABLED"
          }
        ],
        "categories": [],
        "@uri": "/nfvd/definition/relationship/759",
        "@id": "759"
      }
……............
…............
  ]
}
```


Possible errors	500 Internal server error: An unexpected error occurred processing the request

2.2 Create definitions

2.2.1 XML

Description	Create definitions (artifacts and relationships) in XML format
HTTP method	POST
Resource	/nfvd/definition
Query Parameters	Not needed
Relevant Headers	Content-type: application/xml
	Accept: application/xml
Request Body	

```
<definitions xmlns="http://www.hp.com/nfvd">
   <artifact-definitions>
      <artifact-definition>
         <categories>
            <category>
               <attributes>
                  <attribute>
                     <label>att1</label>
                     <default-value>att1 default</default-value>
                     <description>att1 description</description>
                     <mandatory>true</mandatory>
                     <order>1</order>
                     <type>Integer</type>
                     <unit>GHZ</unit>
                  </attribute>
               </attributes>
               <label>CAT2</label>
               <order>2</order>
            </category>
            <category>
               <attributes>
                  <attribute>
                     <label>att2</label>
                     <default-value>att2 default</default-value>
                     <description>att2 description</description>
                     <mandatory>true</mandatory>
                     <order>2</order>
                     <type>String</type>
                     <unit>MB</unit>
                  </attribute>
                  <attribute>
                     <label>att1</label>
                     <default-value>att1 default</default-value>
                     <description>att1 description</description>
                     <mandatory>true</mandatory>
                     <order>1</order>
                     <type>Integer</type>
                     <unit>MB</unit>
                  </attribute>
               </attributes>
               <label>CAT</label>
               <order>1</order>
            </category>
         </categories>
         <available-status>
            <status>
               <enabled>true</enabled>
               <label>FAILED</label>
               <visible-label>FAILED</visible-label>
```

	``` </status> <status> <enabled>true</enabled> <label>OK</label> <visible-label>OK</visible-label> </status> </available-status> <category>GENERIC</category> <enabled>false</enabled> <family>VNF_COMPONENT1</family> <physical>false</physical> </artifact-definition> </artifact-definitions> <relationship-definitions> <relationship-definition> <child-artifact-definition> <category>GENERIC</category> <family>VIRTUAL CORE</family> </child-artifact-definition> <enabled>true</enabled> <parent-artifact-definition> <category>GENERIC</category> <family>CORE</family> </parent-artifact-definition> <categories/> <available-status> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <status> <enabled>true</enabled> <label>DISABLED</label> <visible-label>ENABLED</visible-label> </status> </available-status> <type>TEST</type> </relationship-definition> </relationship-definitions> </definitions> ```
RAW request example	``` POST http://localhost:8080/nfvd/definition HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 3213 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <definitions xmlns="http://www.hp.com/nfvd"> ……. (see request body) ……. </definitions> ```
RAW Success response example	``` HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 2048 Date: Thu, 07 May 2015 11:52:56 GMT <definitions xmlns="http://www.hp.com/nfvd"> ```

```
   <artifact-definitions>
      <artifact-definition id="1064"
uri="/nfvd/definition/artifact/1064">
         <categories>
            <category>
               <attributes>
                  <attribute>
                     <label>att2</label>
                     <default-value>att2 default</default-value>
                     <description>att2 description</description>
                     <mandatory>true</mandatory>
                     <order>2</order>
                     <type>String</type>
                     <unit>MB</unit>
                  </attribute>
                  <attribute>
                     <label>att1</label>
                     <default-value>att1 default</default-value>
                     <description>att1 description</description>
                     <mandatory>true</mandatory>
                     <order>1</order>
                     <type>Integer</type>
                     <unit>MB</unit>
                  </attribute>
               </attributes>
               <label>CAT</label>
               <order>1</order>
            </category>
            <category>
               <attributes>
                  <attribute>
                     <label>att1</label>
                     <default-value>att1 default</default-value>
                     <description>att1 description</description>
                     <mandatory>true</mandatory>
                     <order>1</order>
                     <type>Integer</type>
                     <unit>GHZ</unit>
                  </attribute>
               </attributes>
               <label>CAT2</label>
               <order>2</order>
            </category>
         </categories>
         <available-status>
            <status>
               <enabled>true</enabled>
               <label>OK</label>
               <visible-label>OK</visible-label>
            </status>
            <status>
               <enabled>true</enabled>
               <label>FAILED</label>
               <visible-label>FAILED</visible-label>
            </status>
         </available-status>
         <category>GENERIC</category>
         <enabled>false</enabled>
         <family>VNF_COMPONENT1</family>
         <physical>false</physical>
      </artifact-definition>
   </artifact-definitions>
   <relationship-definitions>
```

	`<relationship-definition id="771" uri="/nfvd/definition/relationship/771">`
	`<child-artifact-definition>`
	`<category>GENERIC</category>`
	`<family>VIRTUAL_CORE</family>`
	`</child-artifact-definition>`
	`<enabled>true</enabled>`
	`<parent-artifact-definition>`
	`<category>GENERIC</category>`
	`<family>CORE</family>`
	`</parent-artifact-definition>`
	`<categories/>`
	`<available-status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>DISABLED</label>`
	`<visible-label>ENABLED</visible-label>`
	`</status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>ENABLED</label>`
	`<visible-label>ENABLED</visible-label>`
	`</status>`
	`</available-status>`
	`<type>TEST</type>`
	`</relationship-definition>`
	`</relationship-definitions>`
	`</definitions>`

Possible errors	400 Bad request: Request syntax error
	409 Conflict: Either Artifact or Relationship already exist
	500 Internal server error: An unexpected error occurred processing the request

2.2.2 JSON

Description	Create definitions (artifacts and relationships) in JSON format
HTTP method	`POST`
Resource	`/nfvd/definition`
Query Parameters	Not needed
Relevant Headers	`Content-type: application/json`
	`Accept: application/json`

Request Body	`{`
	`"language-code": null,`
	`"artifact-definitions": [ {`
	`"family": "VNF_COMPONENT3",`
	`"category": "GENERIC",`
	`"group": null,`
	`"type": null,`
	`"subtype": null,`
	`"version": null,`
	`"physical": false,`
	`"enabled": false,`
	`"available-status": [`

```
                {
            "enabled": true,
            "label": "FAILED",
            "visible-label": "FAILED"
        },
                {
            "enabled": true,
            "label": "OK",
            "visible-label": "OK"
        }
    ],
    "categories":       [
                {
            "order": 2,
            "attributes": [             {
               "order": 1,
               "mandatory": true,
               "description": "att1 description",
               "type": "Integer",
               "unit": "GHZ",
               "label": "att1",
               "default-value": "att1 default"
            }],
            "label": "CAT2"
        },
                {
            "order": 1,
            "attributes":              [
                            {
                "order": 2,
                "mandatory": true,
                "description": "att2 description",
                "type": "String",
                "unit": "MB",
                "label": "att2",
                "default-value": "att2 default"
               },
                            {
                "order": 1,
                "mandatory": true,
                "description": "att1 description",
                "type": "Integer",
                "unit": "MB",
                "label": "att1",
                "default-value": "att1 default"
               }
            ],
            "label": "CAT"
        }
    ]
}],
"relationship-definitions": [   {
    "type": "TEST3",
    "enabled": true,
    "parent-artifact-definition":       {
       "family": "CORE",
       "category": "GENERIC",
       "group": null,
       "type": null,
       "subtype": null,
       "version": null
    },
    "child-artifact-definition":       {
```

	"family": "VIRTUAL_CORE",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"available-status": [
	{
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	{
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "ENABLED"
	}
	],
	"categories": []
	}]
	}

RAW request example	POST http://localhost:8080/nfvd/definition HTTP/1.1
	Accept-Encoding: gzip,deflate
	Content-Type: application/json
	Accept: application/json
	Content-Length: 2622
	Host: localhost:8080
	Connection: Keep-Alive
	User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
	
	{
	"language-code": null,
	"artifact-definitions": [{
	……
	(see request body)
	……
	"categories": []
	}]
	}

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Thu, 07 May 2015 12:02:51 GMT
	
	{
	"language-code": null,
	"artifact-definitions": [{
	"family": "VNF_COMPONENT3",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null,
	"physical": false,
	"enabled": false,
	"available-status": [
	{
	"enabled": true,
	"label": "OK",
	"visible-label": "OK"

```
         },
                  {
            "enabled": true,
            "label": "FAILED",
            "visible-label": "FAILED"
         }
      ],
      "categories":       [
                  {
            "order": 2,
            "attributes": [            {
               "order": 1,
               "mandatory": true,
               "description": "att1 description",
               "type": "Integer",
               "unit": "GHZ",
               "label": "att1",
               "default-value": "att1 default"
            }],
            "label": "CAT2"
         },
                  {
            "order": 1,
            "attributes":              [
                              {
                  "order": 1,
                  "mandatory": true,
                  "description": "att1 description",
                  "type": "Integer",
                  "unit": "MB",
                  "label": "att1",
                  "default-value": "att1 default"
               },
                              {
                  "order": 2,
                  "mandatory": true,
                  "description": "att2 description",
                  "type": "String",
                  "unit": "MB",
                  "label": "att2",
                  "default-value": "att2 default"
               }
            ],
            "label": "CAT"
         }
      ],
      "@uri": "/nfvd/definition/artifact/1066",
      "@id": "1066"
   }],
   "relationship-definitions": [   {
      "type": "TEST3",
      "enabled": true,
      "parent-artifact-definition":       {
         "family": "CORE",
         "category": "GENERIC",
         "group": null,
         "type": null,
         "subtype": null,
         "version": null
      },
      "child-artifact-definition":       {
         "family": "VIRTUAL_CORE",
         "category": "GENERIC",
```

	`"group": null,`
	`"type": null,`
	`"subtype": null,`
	`"version": null`
	`},`
	`"available-status": [`
	`{`
	`"enabled": true,`
	`"label": "DISABLED",`
	`"visible-label": "ENABLED"`
	`},`
	`{`
	`"enabled": true,`
	`"label": "ENABLED",`
	`"visible-label": "ENABLED"`
	`}`
	`],`
	`"categories": [],`
	`"@uri": "/nfvd/definition/relationship/773",`
	`"@id": "773"`
	`}]`
	`}`

Possible errors	400 Bad request: Request syntax error
	409 Conflict: Either Artifact or Relationship already exist
	500 Internal server error: An unexpected error occurred processing the request

2.3 Update definitions

2.3.1 XML

Description	Update definitions (artifacts and relationships) in XML format
HTTP method	PUT
Resource	/nfvd/definition
Query Parameters	Not needed
Relevant Headers	Content-type: application/xml
	Accept: application/xml
Request Body	

```
<definitions xmlns="http://www.hp.com/nfvd">
   <artifact-definitions>
      <artifact-definition>
         <categories>
            <category>
               <attributes>
                  <attribute>
                     <label>att1</label>
                     <default-value>att1 default</default-value>
                     <description>att1 description</description>
                     <mandatory>true</mandatory>
                     <order>1</order>
                     <type>Integer</type>
                     <unit>GHZ</unit>
                  </attribute>
               </attributes>
               <label>CAT2</label>
               <order>2</order>
            </category>
            <category>
               <attributes>
                  <attribute>
                     <label>att2</label>
                     <default-value>att2 default</default-value>
                     <description>att2 description</description>
                     <mandatory>true</mandatory>
                     <order>2</order>
                     <type>String</type>
                     <unit>MB</unit>
                  </attribute>
                  <attribute>
                     <label>att1</label>
                     <default-value>att1 default</default-value>
                     <description>att1 description
test</description>
                     <mandatory>true</mandatory>
                     <order>1</order>
                     <type>Integer</type>
                     <unit>MB</unit>
                  </attribute>
               </attributes>
               <label>CAT</label>
               <order>1</order>
            </category>
         </categories>
         <available-status>
            <status>
               <enabled>true</enabled>
               <label>FAILED</label>
               <visible-label>FAILED</visible-label>
```

```
            </status>
            <status>
               <enabled>true</enabled>
               <label>OK</label>
               <visible-label>OK</visible-label>
            </status>
         </available-status>
         <category>GENERIC</category>
         <enabled>false</enabled>
         <family>VNF_COMPONENT2</family>
         <physical>false</physical>
      </artifact-definition>
   </artifact-definitions>
   <relationship-definitions>
      <relationship-definition>
         <child-artifact-definition>
            <category>GENERIC</category>
            <family>VIRTUAL CORE</family>
         </child-artifact-definition>
         <enabled>true</enabled>
         <parent-artifact-definition>
            <category>GENERIC</category>
            <family>CORE</family>
         </parent-artifact-definition>
         <categories/>
         <available-status>
            <status>
               <enabled>true</enabled>
               <label>ENABLED</label>
               <visible-label>ENABLED</visible-label>
            </status>
            <status>
               <enabled>true</enabled>
               <label>DISABLED</label>
               <visible-label>ENABLED</visible-label>
            </status>
            <status>
               <enabled>true</enabled>
               <label>NEW</label>
               <visible-label>NEW</visible-label>
            </status>
         </available-status>
         <type>TEST2</type>
      </relationship-definition>
    </relationship-definitions>
</definitions>
```


RAW request example

```
PUT http://localhost:8080/nfvd/definition HTTP/1.1
Accept-Encoding: gzip,deflate
Content-Type: application/xml
Accept: application/xml
Content-Length: 3385
Host: localhost:8080
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

<definitions xmlns="http://www.hp.com/nfvd">
…….
(see request body)
…….
</definitions>
```

RAW Success response example	

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Content-Type: application/xml
Content-Length: 2146
Date: Thu, 07 May 2015 17:16:14 GMT

<definitions xmlns="http://www.hp.com/nfvd">
   <artifact-definitions>
      <artifact-definition id="1065"
uri="/nfvd/definition/artifact/1065">
         <categories>
            <category>
               <attributes>
                  <attribute>
                     <label>att1</label>
                     <default-value>att1 default</default-value>
                     <description>att1 description</description>
                     <mandatory>true</mandatory>
                     <order>1</order>
                     <type>Integer</type>
                     <unit>GHZ</unit>
                  </attribute>
               </attributes>
               <label>CAT2</label>
               <order>2</order>
            </category>
            <category>
               <attributes>
                  <attribute>
                     <label>att1</label>
                     <default-value>att1 default</default-value>
                     <description>att1 description
test</description>
                     <mandatory>true</mandatory>
                     <order>1</order>
                     <type>Integer</type>
                     <unit>MB</unit>
                  </attribute>
                  <attribute>
                     <label>att2</label>
                     <default-value>att2 default</default-value>
                     <description>att2 description</description>
                     <mandatory>true</mandatory>
                     <order>2</order>
                     <type>String</type>
                     <unit>MB</unit>
                  </attribute>
               </attributes>
               <label>CAT</label>
               <order>1</order>
            </category>
         </categories>
         <available-status>
            <status>
               <enabled>true</enabled>
               <label>FAILED</label>
               <visible-label>FAILED</visible-label>
            </status>
            <status>
               <enabled>true</enabled>
               <label>OK</label>
               <visible-label>OK</visible-label>
            </status>
```

	`</available-status>`
	`<category>GENERIC</category>`
	`<enabled>false</enabled>`
	`<family>VNF_COMPONENT2</family>`
	`<physical>false</physical>`
	`</artifact-definition>`
	`</artifact-definitions>`
	`<relationship-definitions>`
	`<relationship-definition id="772" uri="/nfvd/definition/relationship/772">`
	`<child-artifact-definition>`
	`<category>GENERIC</category>`
	`<family>VIRTUAL_CORE</family>`
	`</child-artifact-definition>`
	`<enabled>true</enabled>`
	`<parent-artifact-definition>`
	`<category>GENERIC</category>`
	`<family>CORE</family>`
	`</parent-artifact-definition>`
	`<categories/>`
	`<available-status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>ENABLED</label>`
	`<visible-label>ENABLED</visible-label>`
	`</status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>NEW</label>`
	`<visible-label>NEW</visible-label>`
	`</status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>DISABLED</label>`
	`<visible-label>ENABLED</visible-label>`
	`</status>`
	`</available-status>`
	`<type>TEST2</type>`
	`</relationship-definition>`
	`</relationship-definitions>`
	`</definitions>`

Possible errors	400 Bad request: Request syntax error
	404 Not found: Either Artifact or Relationship do not exist
	500 Internal server error: An unexpected error occurred processing the request

2.3.2 JSON

Description	Update definitions (artifacts and relationships) in JSON format
HTTP method	`PUT`
Resource	`/nfvd/definition`
Query Parameters	Not needed
Relevant Headers	Content-type: application/json
	Accept: application/json

Request Body	{
	"language-code": null,
	"artifact-definitions": [{
	"family": "VNF COMPONENT3",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null,
	"physical": false,
	"enabled": false,
	"available-status": [
	{
	"enabled": true,
	"label": "FAILED",
	"visible-label": "FAILED"
	},
	{
	"enabled": true,
	"label": "OK",
	"visible-label": "OK"
	}
	],
	"categories": [
	{
	"order": 2,
	"attributes": [{
	"order": 1,
	"mandatory": true,
	"description": "att1 description",
	"type": "Integer",
	"unit": "GHZ",
	"label": "att1",
	"default-value": "att1 default"
	}],
	"label": "CAT2"
	},
	{
	"order": 1,
	"attributes": [
	{
	"order": 2,
	"mandatory": true,
	"description": "att2 description",
	"type": "String",
	"unit": "MB",
	"label": "att2",
	"default-value": "att2 default"
	},
	{
	"order": 1,
	"mandatory": true,
	"description": "att1 description",
	"type": "Integer",
	"unit": "MB",
	"label": "att1",
	"default-value": "att1 default"
	}
	],
	"label": "CAT"
	}
	]
	}],

	"relationship-definitions": [{
	"type": "TEST3",
	"enabled": true,
	"parent-artifact-definition": {
	"family": "CORE",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"child-artifact-definition": {
	"family": "VIRTUAL_CORE",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"available-status": [
	{
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	{
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "ENABLED"
	}
	],
	"categories": []
	}]
	}

RAW request example	PUT http://localhost:8080/nfvd/definition HTTP/1.1
	Accept-Encoding: gzip,deflate
	Content-Type: application/json
	Accept: application/json
	Content-Length: 2622
	Host: localhost:8080
	Connection: Keep-Alive
	User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
	
	{
	"language-code": null,
	"artifact-definitions": [{
	……
	(see request body)
	……
	}]
	}

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Thu, 07 May 2015 17:19:28 GMT
	
	{
	"language-code": null,
	"artifact-definitions": [{
	"family": "VNF_COMPONENT3",
	"category": "GENERIC",

```
      "group": null,
      "type": null,
      "subtype": null,
      "version": null,
      "physical": false,
      "enabled": false,
      "available-status":       [
                  {
            "enabled": true,
            "label": "OK",
            "visible-label": "OK"
         },
                  {
            "enabled": true,
            "label": "FAILED",
            "visible-label": "FAILED"
         }
      ],
      "categories":       [
                  {
            "order": 2,
            "attributes": [            {
               "order": 1,
               "mandatory": true,
               "description": "att1 description",
               "type": "Integer",
               "unit": "GHZ",
               "label": "att1",
               "default-value": "att1 default"
            }],
            "label": "CAT2"
         },
                  {
            "order": 1,
            "attributes":              [
                              {
                  "order": 1,
                  "mandatory": true,
                  "description": "att1 description",
                  "type": "Integer",
                  "unit": "MB",
                  "label": "att1",
                  "default-value": "att1 default"
               },
                              {
                  "order": 2,
                  "mandatory": true,
                  "description": "att2 description",
                  "type": "String",
                  "unit": "MB",
                  "label": "att2",
                  "default-value": "att2 default"
               }
            ],
            "label": "CAT"
         }
      ],
      "@uri": "/nfvd/definition/artifact/1066",
      "@id": "1066"
   }],
   "relationship-definitions": [   {
      "type": "TEST3",
      "enabled": true,
```

	"parent-artifact-definition": {
	"family": "CORE",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"child-artifact-definition": {
	"family": "VIRTUAL_CORE",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"available-status": [
	{
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "ENABLED"
	},
	{
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	}
	],
	"categories": [],
	"@uri": "/nfvd/definition/relationship/773",
	"@id": "773"
	}]
	}

Possible errors	400 Bad request: Request syntax error
	404 Not found: Either Artifact or Relationship do not exist
	500 Internal server error: An unexpected error occurred processing the request

2.4 Artifacts

2.4.1 Get artifact definition by id

2.4.1.1 XML

Description	Get artifact definition by its id in XML format
HTTP method	GET
Resource	/nfvd/definition/artifact/{id}
Query Parameters	Not needed
Relevant Headers	Accept: application/xml
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/definition/artifact/1065 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 1319 Date: Thu, 07 May 2015 17:29:47 GMT <artifact-definition id="1065" uri="/nfvd/definition/artifact/1065" xmlns="http://www.hp.com/nfvd"> <categories> <category> <attributes> <attribute> <label>att1</label> <default-value>att1 default</default-value> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>Integer</type> <unit>GHZ</unit> </attribute> </attributes> <label>CAT2</label> <order>2</order> </category> <category> <attributes> <attribute> <label>att1</label> <default-value>att1 default</default-value> <description>att1 description test</description> <mandatory>true</mandatory> <order>1</order> <type>Integer</type> <unit>MB</unit> </attribute> <attribute> <label>att2</label>

	`<default-value>att2 default</default-value>`
	`<description>att2 description</description>`
	`<mandatory>true</mandatory>`
	`<order>2</order>`
	`<type>String</type>`
	`<unit>MB</unit>`
	`</attribute>`
	`</attributes>`
	`<label>CAT</label>`
	`<order>1</order>`
	`</category>`
	`</categories>`
	`<available-status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>FAILED</label>`
	`<visible-label>FAILED</visible-label>`
	`</status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>OK</label>`
	`<visible-label>OK</visible-label>`
	`</status>`
	`</available-status>`
	`<category>GENERIC</category>`
	`<enabled>false</enabled>`
	`<family>VNF COMPONENT2</family>`
	`<physical>false</physical>`
	`</artifact-definition>`

Possible errors	404 Not found: Artifact does not exist
	500 Internal server error: An unexpected error occurred processing the request

2.4.1.2 JSON

Description	Get artifact definition by its id in JSON format
HTTP method	`GET`
Resource	`/nfvd/definition/artifact/{id}`
Query Parameters	Not needed
Relevant Headers	`Accept: application/json`
Request Body	Not needed

RAW request example	`GET http://localhost:8080/nfvd/definition/artifact/1065 HTTP/1.1`
	`Accept-Encoding: gzip,deflate`
	`Accept: application/json`
	`Host: localhost:8080`
	`Connection: Keep-Alive`
	`User-Agent: Apache-HttpClient/4.1.1 (java 1.5)`

RAW Success response example	`HTTP/1.1 200 OK`
	`Server: Apache-Coyote/1.1`
	`Content-Type: application/json`
	`Transfer-Encoding: chunked`
	`Date: Thu, 07 May 2015 17:33:08 GMT`

```
{
   "family": "VNF_COMPONENT2",
   "category": "GENERIC",
   "group": null,
   "type": null,
   "subtype": null,
   "version": null,
   "physical": false,
   "enabled": false,
   "available-status":    [
            {
         "enabled": true,
         "label": "FAILED",
         "visible-label": "FAILED"
      },
            {
         "enabled": true,
         "label": "OK",
         "visible-label": "OK"
      }
   ],
   "categories":    [
            {
         "order": 2,
         "attributes": [         {
            "order": 1,
            "mandatory": true,
            "description": "att1 description",
            "type": "Integer",
            "unit": "GHZ",
            "label": "att1",
            "default-value": "att1 default"
         }],
         "label": "CAT2"
      },
            {
         "order": 1,
         "attributes":          [
                        {
               "order": 1,
               "mandatory": true,
               "description": "att1 description test",
               "type": "Integer",
               "unit": "MB",
               "label": "att1",
               "default-value": "att1 default"
            },
                        {
               "order": 2,
               "mandatory": true,
               "description": "att2 description",
               "type": "String",
               "unit": "MB",
               "label": "att2",
               "default-value": "att2 default"
            }
         ],
         "label": "CAT"
      }
   ],
   "@uri": "/nfvd/definition/artifact/1065",
   "@id": "1065"
}
```

Possible errors	404 Not found: Artifact does not exist
	500 Internal server error: An unexpected error occurred processing the request

2.4.2 Get artifact definition detail by id

2.4.2.1 XML

Description	Get artifact definition detail (artifact and its relationships) by its id in XML format
HTTP method	GET
Resource	/nfvd/definition/artifact/{id}/detail
Query Parameters	Not needed
Relevant Headers	Accept: application/xml
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/definition/artifact/1049/detail HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 1418 Date: Thu, 07 May 2015 17:35:54 GMT <definitions xmlns="http://www.hp.com/nfvd"> <artifact-definitions> <artifact-definition id="1049" uri="/nfvd/definition/artifact/1049"> <categories/> <available-status> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <status> <enabled>true</enabled> <label>DISABLED</label> <visible-label>DISABLED</visible-label> </status> </available-status> <category>GENERIC_TEST_2</category> <enabled>true</enabled> <family>VNF COMPONENT TEST 3</family> <physical>false</physical> <version>1</version> </artifact-definition> </artifact-definitions> <relationship-definitions> <relationship-definition id="765" uri="/nfvd/definition/relationship/765"> <child-artifact-definition> <category>GENERIC TEST 2</category> <family>VM_TEST_3</family> </child-artifact-definition> <enabled>true</enabled> <parent-artifact-definition>

```
            <category>GENERIC_TEST_2</category>
            <family>VNF_COMPONENT_TEST_3</family>
            <version>1</version>
         </parent-artifact-definition>
         <categories>
            <category>
               <attributes>
                  <attribute>
                     <label>att1</label>
                     <default-value>att1 default</default-value>
                     <description>att1 description</description>
                     <mandatory>true</mandatory>
                     <order>1</order>
                     <type>String</type>
                     <unit>GB</unit>
                  </attribute>
               </attributes>
               <label>CAT</label>
               <order>1</order>
            </category>
            <category>
               <attributes>
                  <attribute>
                     <label>att1</label>
                     <default-value>att1 default</default-value>
                     <description>att1 description</description>
                     <mandatory>true</mandatory>
                     <order>1</order>
                     <type>Long</type>
                     <unit>GB</unit>
                  </attribute>
               </attributes>
               <label>CAT2</label>
               <order>2</order>
            </category>
         </categories>
         <available-status>
            <status>
               <enabled>true</enabled>
               <label>OK</label>
               <visible-label>OK</visible-label>
            </status>
            <status>
               <enabled>true</enabled>
               <label>RETRY</label>
               <visible-label>RETRY</visible-label>
            </status>
         </available-status>
         <type>CONTAINS_TEST_2</type>
      </relationship-definition>
   </relationship-definitions>
</definitions>
```


Possible errors	404 Not found: Artifact does not exist
	500 Internal server error: An unexpected error occurred processing the request

2.4.2.2 JSON

Description	Get artifact definition detail (artifact and its relationships) by its id in JSON format

HTTP method	GET
Resource	/nfvd/definition/artifact/{id}/detail
Query Parameters	Not needed
Relevant Headers	Accept: application/json
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/definition/artifact/1049/detail HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Thu, 07 May 2015 17:36:59 GMT
	
	{
	"language-code": null,
	"artifact-definitions": [{
	"family": "VNF COMPONENT TEST 3",
	"category": "GENERIC_TEST_2",
	"group": null,
	"type": null,
	"subtype": null,
	"version": "1",
	"physical": false,
	"enabled": true,
	"available-status": [
	{
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	{
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "DISABLED"
	}
	],
	"categories": [],
	"@uri": "/nfvd/definition/artifact/1049",
	"@id": "1049"
	}],
	"relationship-definitions": [{
	"type": "CONTAINS_TEST_2",
	"enabled": true,
	"parent-artifact-definition": {
	"family": "VNF_COMPONENT_TEST_3",
	"category": "GENERIC TEST 2",
	"group": null,
	"type": null,
	"subtype": null,
	"version": "1"
	},

```
      "child-artifact-definition":       {
         "family": "VM_TEST_3",
         "category": "GENERIC TEST 2",
         "group": null,
         "type": null,
         "subtype": null,
         "version": null
      },
      "available-status":       [
                  {
            "enabled": true,
            "label": "OK",
            "visible-label": "OK"
         },
                  {
            "enabled": true,
            "label": "RETRY",
            "visible-label": "RETRY"
         }
      ],
      "categories":       [
                  {
            "order": 1,
            "attributes": [            {
               "order": 1,
               "mandatory": true,
               "description": "att1 description",
               "type": "String",
               "unit": "GB",
               "label": "att1",
               "default-value": "att1 default"
            }],
            "label": "CAT"
         },
                  {
            "order": 2,
            "attributes": [            {
               "order": 1,
               "mandatory": true,
               "description": "att1 description",
               "type": "Long",
               "unit": "GB",
               "label": "att1",
               "default-value": "att1 default"
            }],
            "label": "CAT2"
         }
      ],
      "@uri": "/nfvd/definition/relationship/765",
      "@id": "765"
   }]
}
```


Possible errors	404 Not found: Artifact does not exist
	500 Internal server error: An unexpected error occurred processing the request

2.4.3 Get artifact definition list by definition parameters

2.4.3.1 XML

Description	Get artifact definition list by definition parameters in XML format	
HTTP method	GET	
Resource	/nfvd/definition/artifact/	
Query Parameters	family	Optional (default=null)
	category	Optional (default=null)
	group	Optional (default=null)
	type	Optional (default=null)
	subtype	Optional (default=null)
	exactMatching	Optional (default=false)
Relevant Headers	Accept: application/xml	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/definition/artifact?family=VNF_COMPONENT &category=GENERIC&exactMatching=true HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 3561 Date: Fri, 08 May 2015 07:38:31 GMT <artifact-definitions xmlns="http://www.hp.com/nfvd"> <artifact-definition id="1037" uri="/nfvd/definition/artifact/1037"> <categories> <category> <attributes> <attribute> <label>LifeCycle State Date</label> <mandatory>false</mandatory> <order>5</order> <type>Date</type> <unit>Date</unit> </attribute> <attribute> <label>LifeCycle_State</label> <mandatory>false</mandatory> <order>4</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Operational_Status</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type>	

```
                  <unit>TEXT</unit>
               </attribute>
               <attribute>
                  <label>additionalText</label>
                  <mandatory>false</mandatory>
                  <order>6</order>
                  <type>TEXT</type>
                  <unit>TEXT</unit>
               </attribute>
               <attribute>
                  <label>Operational_Status_Date</label>
                  <mandatory>false</mandatory>
                  <order>2</order>
                  <type>Date</type>
                  <unit>Date</unit>
               </attribute>
               <attribute>
                  <label>Source</label>
                  <mandatory>true</mandatory>
                  <order>3</order>
                  <type>TEXT</type>
                  <unit>TEXT</unit>
               </attribute>
            </attributes>
            <label>STATUS</label>
            <order>2</order>
         </category>
         <category>
            <attributes>
               <attribute>
                  <label>Name</label>
                  <default-value>Name of the artifac</default-
value>
                  <mandatory>false</mandatory>
                  <order>1</order>
                  <type>TEXT</type>
                  <unit>TEXT</unit>
               </attribute>
               <attribute>
                  <label>Descripton</label>
                  <default-value>Descripton</default-value>
                  <mandatory>false</mandatory>
                  <order>2</order>
                  <type>TEXT</type>
                  <unit>TEXT</unit>
               </attribute>
            </attributes>
            <label>GENERAL</label>
            <order>1</order>
         </category>
         <category>
            <attributes>
               <attribute>
                  <label>Result_description</label>
                  <mandatory>false</mandatory>
                  <order>3</order>
                  <type>TEXT</type>
                  <unit>TEXT</unit>
               </attribute>
               <attribute>
                  <label>Operation</label>
                  <mandatory>false</mandatory>
                  <order>1</order>
```

```
                  <type>TEXT</type>
                  <unit>TEXT</unit>
               </attribute>
               <attribute>
                  <label>Result_code</label>
                  <mandatory>false</mandatory>
                  <order>2</order>
                  <type>TEXT</type>
                  <unit>TEXT</unit>
               </attribute>
            </attributes>
            <label>LAST OPERATION</label>
            <order>3</order>
         </category>
      </categories>
      <available-status>
         <status>
            <enabled>true</enabled>
            <label>RUNNING</label>
            <visible-label>VNF Component up and runnig</visible-
label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>ERROR</label>
            <visible-label>VNF Component up but with
errors</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>TERMINATED</label>
            <visible-label>TERMINATED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>ACTIVE</label>
            <visible-label>ACTIVE</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>RESERVED</label>
            <visible-label>RESERVED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>INSTANTIATED</label>
            <visible-label>INSTANTIATED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>PROVISIONED</label>
            <visible-label>PROVISIONED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>STOPPED</label>
            <visible-label>VNF Component created but not
started</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>DESIGNED</label>
            <visible-label>DESIGNED</visible-label>
```

	`</status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>DISABLED</label>`
	`<visible-label>DISABLED</visible-label>`
	`</status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>ENABLED</label>`
	`<visible-label>ENABLED</visible-label>`
	`</status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>CHECKED</label>`
	`<visible-label>CHECKED</visible-label>`
	`</status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>LOCKED</label>`
	`<visible-label>LOCKED</visible-label>`
	`</status>`
	`</available-status>`
	`<category>GENERIC</category>`
	`<enabled>true</enabled>`
	`<family>VNF_COMPONENT</family>`
	`<physical>false</physical>`
	`</artifact-definition>`
	`</artifact-definitions>`

Possible errors	500 Internal server error: An unexpected error occurred processing the request

2.4.3.2 JSON

Description	Get artifact definition list by definition parameters in JSON format	
HTTP method	`GET`	
Resource	`/nfvd/definition/artifact/`	
Query Parameters	family	Optional (default=null)
	category	Optional (default=null)
	group	Optional (default=null)
	type	Optional (default=null)
	subtype	Optional (default=null)
	exactMatching	Optional (default=false)
Relevant Headers	`Accept: application/json`	
Request Body	Not needed	

RAW request example	`GET`
	`http://localhost:8080/nfvd/definition/artifact?family=VNF_COMPONENT`
	`&category=GENERIC&exactMatching=true HTTP/1.1`
	`Accept-Encoding: gzip,deflate`
	`Accept: application/json`
	`Host: localhost:8080`
	`Connection: Keep-Alive`
	`User-Agent: Apache-HttpClient/4.1.1 (java 1.5)`	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 07:51:50 GMT
	
	{"artifact-definitions": [{
	"family": "VNF_COMPONENT",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null,
	"physical": false,
	"enabled": true,
	"available-status": [
	{
	"enabled": true,
	"label": "RUNNING",
	"visible-label": "VNF Component up and runnig"
	},
	{
	"enabled": true,
	"label": "ERROR",
	"visible-label": "VNF Component up but with errors"
	},
	{
	"enabled": true,
	"label": "TERMINATED",
	"visible-label": "TERMINATED"
	},
	{
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	{
	"enabled": true,
	"label": "RESERVED",
	"visible-label": "RESERVED"
	},
	{
	"enabled": true,
	"label": "INSTANTIATED",
	"visible-label": "INSTANTIATED"
	},
	{
	"enabled": true,
	"label": "PROVISIONED",
	"visible-label": "PROVISIONED"
	},
	{
	"enabled": true,
	"label": "STOPPED",
	"visible-label": "VNF Component created but not started"
	},
	{
	"enabled": true,
	"label": "DESIGNED",
	"visible-label": "DESIGNED"
	},
	{
	"enabled": true,

```
            "label": "DISABLED",
            "visible-label": "DISABLED"
        },
            {
            "enabled": true,
            "label": "ENABLED",
            "visible-label": "ENABLED"
        },
            {
            "enabled": true,
            "label": "CHECKED",
            "visible-label": "CHECKED"
        },
            {
            "enabled": true,
            "label": "LOCKED",
            "visible-label": "LOCKED"
        }
    ],
    "categories":    [
            {
            "order": 2,
            "attributes":          [
                        {
                "order": 5,
                "mandatory": false,
                "description": null,
                "type": "Date",
                "unit": "Date",
                "label": "LifeCycle State Date",
                "default-value": null
            },
                        {
                "order": 4,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "LifeCycle_State",
                "default-value": null
            },
                        {
                "order": 1,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Operational_Status",
                "default-value": null
            },
                        {
                "order": 6,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "additionalText",
                "default-value": null
            },
                        {
                "order": 2,
                "mandatory": false,
                "description": null,
```

```
                "type": "Date",
                "unit": "Date",
                "label": "Operational Status Date",
                "default-value": null
            },
                        {
                "order": 3,
                "mandatory": true,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Source",
                "default-value": null
            }
        ],
        "label": "STATUS"
    },
            {
        "order": 1,
        "attributes":           [
                        {
                "order": 1,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Name",
                "default-value": "Name of the artifac"
            },
                        {
                "order": 2,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Descripton",
                "default-value": "Descripton"
            }
        ],
        "label": "GENERAL"
    },
            {
        "order": 3,
        "attributes":           [
                        {
                "order": 3,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Result_description",
                "default-value": null
            },
                        {
                "order": 1,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Operation",
                "default-value": null
            },
                        {
```

	"order": 2, "mandatory": false, "description": null, "type": "TEXT", "unit": "TEXT", "label": "Result code", "default-value": null }], "label": "LAST_OPERATION" }], "@uri": "/nfvd/definition/artifact/1037", "@id": "1037" }]}
Possible errors	500 Internal server error: An unexpected error occurred processing the request

2.4.4 Create a list of artifact definition

2.4.4.1 XML

Description	Create a list artifact definition in XML format
HTTP method	POST
Resource	/nfvd/definition/artifact/
Query Parameters	Not needed
Relevant Headers	Content-Type: application/xml Accept: application/xml

Request Body	`<artifact-definitions xmlns="http://www.hp.com/nfvd">`
	`  <artifact-definition>`
	`  <categories>`
	`  <category>`
	`  <attributes>`
	`  <attribute>`
	`  <label>LifeCycle State Date</label>`
	`  <mandatory>false</mandatory>`
	`  <order>5</order>`
	`  <type>Date</type>`
	`  <unit>Date</unit>`
	`  </attribute>`
	`  <attribute>`
	`  <label>LifeCycle_State</label>`
	`  <mandatory>false</mandatory>`
	`  <order>4</order>`
	`  <type>TEXT</type>`
	`  <unit>TEXT</unit>`
	`  </attribute>`
	`  <attribute>`
	`  <label>Operational_Status</label>`
	`  <mandatory>false</mandatory>`
	`  <order>1</order>`
	`  <type>TEXT</type>`
	`  <unit>TEXT</unit>`
	`  </attribute>`
	`  <attribute>`
	`  <label>additionalText</label>`
	`  <mandatory>false</mandatory>`
	`  <order>6</order>`
	`  <type>TEXT</type>`
	`  <unit>TEXT</unit>`
	`  </attribute>`
	`  <attribute>`
	`  <label>Operational_Status_Date</label>`
	`  <mandatory>false</mandatory>`
	`  <order>2</order>`
	`  <type>Date</type>`
	`  <unit>Date</unit>`
	`  </attribute>`
	`  <attribute>`
	`  <label>Source</label>`
	`  <mandatory>true</mandatory>`
	`  <order>3</order>`
	`  <type>TEXT</type>`
	`  <unit>TEXT</unit>`
	`  </attribute>`
	`  </attributes>`
	`  <label>STATUS</label>`
	`  <order>2</order>`

```
         </category>
         <category>
            <attributes>
               <attribute>
                  <label>Name</label>
                  <default-value>Name of the artifac</default-
value>
                  <mandatory>false</mandatory>
                  <order>1</order>
                  <type>TEXT</type>
                  <unit>TEXT</unit>
               </attribute>
               <attribute>
                  <label>Descripton</label>
                  <default-value>Descripton</default-value>
                  <mandatory>false</mandatory>
                  <order>2</order>
                  <type>TEXT</type>
                  <unit>TEXT</unit>
               </attribute>
            </attributes>
            <label>GENERAL</label>
            <order>1</order>
         </category>
         <category>
            <attributes>
               <attribute>
                  <label>Result_description</label>
                  <mandatory>false</mandatory>
                  <order>3</order>
                  <type>TEXT</type>
                  <unit>TEXT</unit>
               </attribute>
               <attribute>
                  <label>Operation</label>
                  <mandatory>false</mandatory>
                  <order>1</order>
                  <type>TEXT</type>
                  <unit>TEXT</unit>
               </attribute>
               <attribute>
                  <label>Result_code</label>
                  <mandatory>false</mandatory>
                  <order>2</order>
                  <type>TEXT</type>
                  <unit>TEXT</unit>
               </attribute>
            </attributes>
            <label>LAST_OPERATION</label>
            <order>3</order>
         </category>
      </categories>
      <available-status>
         <status>
            <enabled>true</enabled>
            <label>RUNNING</label>
            <visible-label>VNF Component up and runnig</visible-
label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>ERROR</label>
            <visible-label>VNF Component up but with
```

```
errors</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>TERMINATED</label>
            <visible-label>TERMINATED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>ACTIVE</label>
            <visible-label>ACTIVE</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>RESERVED</label>
            <visible-label>RESERVED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>INSTANTIATED</label>
            <visible-label>INSTANTIATED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>PROVISIONED</label>
            <visible-label>PROVISIONED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>STOPPED</label>
            <visible-label>VNF Component created but not
started</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>DESIGNED</label>
            <visible-label>DESIGNED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>DISABLED</label>
            <visible-label>DISABLED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>ENABLED</label>
            <visible-label>ENABLED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>CHECKED</label>
            <visible-label>CHECKED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>LOCKED</label>
            <visible-label>LOCKED</visible-label>
         </status>
      </available-status>
      <category>GENERIC</category>
      <enabled>true</enabled>
      <family>VNF_COMPONENT4</family>
      <physical>false</physical>
```

	`  </artifact-definition>` `</artifact-definitions>`

RAW request example	`POST http://localhost:8080/nfvd/definition/artifact HTTP/1.1`
	`Accept-Encoding: gzip,deflate`
	`Content-Type: application/xml`
	`Accept: application/xml`
	`Content-Length: 5990`
	`Host: localhost:8080`
	`Connection: Keep-Alive`
	`User-Agent: Apache-HttpClient/4.1.1 (java 1.5)`
	
	`<artifact-definitions>`
	`……`
	`(see request body)`
	`……`
	`</artifact-definitions>`

RAW Success response example	`HTTP/1.1 200 OK`
	`Server: Apache-Coyote/1.1`
	`Content-Type: application/xml`
	`Content-Length: 3562`
	`Date: Fri, 08 May 2015 08:09:34 GMT`
	
	`<artifact-definitions xmlns="http://www.hp.com/nfvd">`
	`  <artifact-definition id="1067"`
	`uri="/nfvd/definition/artifact/1067">`
	`  <categories>`
	`  <category>`
	`  <attributes>`
	`  <attribute>`
	`  <label>Name</label>`
	`  <default-value>Name of the artifac</default-`
	`value>`
	`  <mandatory>false</mandatory>`
	`  <order>1</order>`
	`  <type>TEXT</type>`
	`  <unit>TEXT</unit>`
	`  </attribute>`
	`  <attribute>`
	`  <label>Descripton</label>`
	`  <default-value>Descripton</default-value>`
	`  <mandatory>false</mandatory>`
	`  <order>2</order>`
	`  <type>TEXT</type>`
	`  <unit>TEXT</unit>`
	`  </attribute>`
	`  </attributes>`
	`  <label>GENERAL</label>`
	`  <order>1</order>`
	`  </category>`
	`  <category>`
	`  <attributes>`
	`  <attribute>`
	`  <label>Operation</label>`
	`  <mandatory>false</mandatory>`
	`  <order>1</order>`
	`  <type>TEXT</type>`
	`  <unit>TEXT</unit>`
	`  </attribute>`
	`  <attribute>`
	`  <label>Result code</label>`

```
                <mandatory>false</mandatory>
                <order>2</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
            </attribute>
            <attribute>
                <label>Result_description</label>
                <mandatory>false</mandatory>
                <order>3</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
            </attribute>
        </attributes>
        <label>LAST_OPERATION</label>
        <order>3</order>
    </category>
    <category>
        <attributes>
            <attribute>
                <label>Operational_Status_Date</label>
                <mandatory>false</mandatory>
                <order>2</order>
                <type>Date</type>
                <unit>Date</unit>
            </attribute>
            <attribute>
                <label>Operational Status</label>
                <mandatory>false</mandatory>
                <order>1</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
            </attribute>
            <attribute>
                <label>LifeCycle_State_Date</label>
                <mandatory>false</mandatory>
                <order>5</order>
                <type>Date</type>
                <unit>Date</unit>
            </attribute>
            <attribute>
                <label>additionalText</label>
                <mandatory>false</mandatory>
                <order>6</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
            </attribute>
            <attribute>
                <label>LifeCycle_State</label>
                <mandatory>false</mandatory>
                <order>4</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
            </attribute>
            <attribute>
                <label>Source</label>
                <mandatory>true</mandatory>
                <order>3</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
            </attribute>
        </attributes>
        <label>STATUS</label>
        <order>2</order>
```

```
         </category>
      </categories>
      <available-status>
         <status>
            <enabled>true</enabled>
            <label>TERMINATED</label>
            <visible-label>TERMINATED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>RUNNING</label>
            <visible-label>VNF Component up and runnig</visible-
label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>LOCKED</label>
            <visible-label>LOCKED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>DESIGNED</label>
            <visible-label>DESIGNED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>DISABLED</label>
            <visible-label>DISABLED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>STOPPED</label>
            <visible-label>VNF Component created but not
started</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>ERROR</label>
            <visible-label>VNF Component up but with
errors</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>CHECKED</label>
            <visible-label>CHECKED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>ACTIVE</label>
            <visible-label>ACTIVE</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>PROVISIONED</label>
            <visible-label>PROVISIONED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
            <label>RESERVED</label>
            <visible-label>RESERVED</visible-label>
         </status>
         <status>
            <enabled>true</enabled>
```

	`<label>INSTANTIATED</label>`
	`<visible-label>INSTANTIATED</visible-label>`
	`</status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>ENABLED</label>`
	`<visible-label>ENABLED</visible-label>`
	`</status>`
	`</available-status>`
	`<category>GENERIC</category>`
	`<enabled>true</enabled>`
	`<family>VNF COMPONENT4</family>`
	`<physical>false</physical>`
	`</artifact-definition>`
	`</artifact-definitions>`

Possible errors	400 Bad request: Request syntax error
	409 Conflict: Artifact(s) already exists
	500 Internal server error: An unexpected error occurred processing the request

2.4.4.2 JSON

Description	Create a list artifact definition in JSON format
HTTP method	`POST`
Resource	`/nfvd/definition/artifact/`
Query Parameters	Not needed
Relevant Headers	`Content-Type: application/json`
	`Accept: application/json`

Request Body	{"artifact-definitions": [{
	"family": "VNF COMPONENT7",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null,
	"physical": false,
	"enabled": true,
	"available-status": [
	{
	"enabled": true,
	"label": "RUNNING",
	"visible-label": "VNF Component up and runnig"
	},
	{
	"enabled": true,
	"label": "ERROR",
	"visible-label": "VNF Component up but with errors"
	},
	{
	"enabled": true,
	"label": "TERMINATED",
	"visible-label": "TERMINATED"
	},
	{
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	{

```
            "enabled": true,
            "label": "RESERVED",
            "visible-label": "RESERVED"
        },
            {
            "enabled": true,
            "label": "INSTANTIATED",
            "visible-label": "INSTANTIATED"
        },
            {
            "enabled": true,
            "label": "PROVISIONED",
            "visible-label": "PROVISIONED"
        },
            {
            "enabled": true,
            "label": "STOPPED",
            "visible-label": "VNF Component created but not started"
        },
            {
            "enabled": true,
            "label": "DESIGNED",
            "visible-label": "DESIGNED"
        },
            {
            "enabled": true,
            "label": "DISABLED",
            "visible-label": "DISABLED"
        },
            {
            "enabled": true,
            "label": "ENABLED",
            "visible-label": "ENABLED"
        },
            {
            "enabled": true,
            "label": "CHECKED",
            "visible-label": "CHECKED"
        },
            {
            "enabled": true,
            "label": "LOCKED",
            "visible-label": "LOCKED"
        }
    ],
    "categories":    [
            {
            "order": 2,
            "attributes":          [
                            {
                "order": 5,
                "mandatory": false,
                "description": null,
                "type": "Date",
                "unit": "Date",
                "label": "LifeCycle State Date",
                "default-value": null
            },
                            {
                "order": 4,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
```

```
                "unit": "TEXT",
                "label": "LifeCycle_State",
                "default-value": null
            },
                        {
                "order": 1,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Operational_Status",
                "default-value": null
            },
                        {
                "order": 6,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "additionalText",
                "default-value": null
            },
                        {
                "order": 2,
                "mandatory": false,
                "description": null,
                "type": "Date",
                "unit": "Date",
                "label": "Operational Status Date",
                "default-value": null
            },
                        {
                "order": 3,
                "mandatory": true,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Source",
                "default-value": null
            }
        ],
        "label": "STATUS"
    },
            {
        "order": 1,
        "attributes":          [
                        {
                "order": 1,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Name",
                "default-value": "Name of the artifac"
            },
                        {
                "order": 2,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Descripton",
                "default-value": "Descripton"
```

	}
	],
	"label": "GENERAL"
	},
	{
	"order": 3,
	"attributes": [
	{
	"order": 3,
	"mandatory": false,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Result_description",
	"default-value": null
	},
	{
	"order": 1,
	"mandatory": false,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Operation",
	"default-value": null
	},
	{
	"order": 2,
	"mandatory": false,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Result code",
	"default-value": null
	}
	],
	"label": "LAST_OPERATION"
	}
	]
	}]}

RAW request example	POST http://localhost:8080/nfvd/definition/artifact HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 5300 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) {"artifact-definitions": [{ ……. (see request body) …….] }]}
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Fri, 08 May 2015 08:17:05 GMT {"artifact-definitions": [{ "family": "VNF_COMPONENT7",

```
    "category": "GENERIC",
    "group": null,
    "type": null,
    "subtype": null,
    "version": null,
    "physical": false,
    "enabled": true,
    "available-status":    [
             {
          "enabled": true,
          "label": "RUNNING",
          "visible-label": "VNF Component up and runnig"
       },
             {
          "enabled": true,
          "label": "ENABLED",
          "visible-label": "ENABLED"
       },
             {
          "enabled": true,
          "label": "ACTIVE",
          "visible-label": "ACTIVE"
       },
             {
          "enabled": true,
          "label": "RESERVED",
          "visible-label": "RESERVED"
       },
             {
          "enabled": true,
          "label": "ERROR",
          "visible-label": "VNF Component up but with errors"
       },
             {
          "enabled": true,
          "label": "STOPPED",
          "visible-label": "VNF Component created but not started"
       },
             {
          "enabled": true,
          "label": "INSTANTIATED",
          "visible-label": "INSTANTIATED"
       },
             {
          "enabled": true,
          "label": "DISABLED",
          "visible-label": "DISABLED"
       },
             {
          "enabled": true,
          "label": "LOCKED",
          "visible-label": "LOCKED"
       },
             {
          "enabled": true,
          "label": "CHECKED",
          "visible-label": "CHECKED"
       },
             {
          "enabled": true,
          "label": "DESIGNED",
          "visible-label": "DESIGNED"
       },
```

```
            {
        "enabled": true,
        "label": "TERMINATED",
        "visible-label": "TERMINATED"
    },
            {
        "enabled": true,
        "label": "PROVISIONED",
        "visible-label": "PROVISIONED"
    }
],
"categories":    [
            {
        "order": 1,
        "attributes":           [
                        {
            "order": 1,
            "mandatory": false,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Name",
            "default-value": "Name of the artifac"
        },
                        {
            "order": 2,
            "mandatory": false,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Descripton",
            "default-value": "Descripton"
        }
        ],
        "label": "GENERAL"
    },
            {
        "order": 2,
        "attributes":           [
                        {
            "order": 6,
            "mandatory": false,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "additionalText",
            "default-value": null
        },
                        {
            "order": 3,
            "mandatory": true,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Source",
            "default-value": null
        },
                        {
            "order": 4,
            "mandatory": false,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
```

```
                "label": "LifeCycle_State",
                "default-value": null
            },
                        {
                "order": 5,
                "mandatory": false,
                "description": null,
                "type": "Date",
                "unit": "Date",
                "label": "LifeCycle_State_Date",
                "default-value": null
            },
                        {
                "order": 2,
                "mandatory": false,
                "description": null,
                "type": "Date",
                "unit": "Date",
                "label": "Operational_Status_Date",
                "default-value": null
            },
                        {
                "order": 1,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Operational_Status",
                "default-value": null
            }
        ],
        "label": "STATUS"
    },
            {
        "order": 3,
        "attributes":          [
                        {
                "order": 1,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Operation",
                "default-value": null
            },
                        {
                "order": 2,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Result_code",
                "default-value": null
            },
                        {
                "order": 3,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Result_description",
                "default-value": null
            }
```

	`]`,
	`"label": "LAST_OPERATION"`
	`}`
	`],`
	`"@uri": "/nfvd/definition/artifact/1068",`
	`"@id": "1068"`
	`}]}`

Possible errors	400 Bad request: Request syntax error
	409 Conflict: Artifact(s) already exists
	500 Internal server error: An unexpected error occurred processing the request

2.4.5 Update an artifact definition by id

2.4.5.1 XML

Description	Update an artifact definition identified by the given id in XML format
HTTP method	PUT
Resource	/nfvd/definition/artifact/{id}
Query Parameters	Not needed
Relevant Headers	Content-Type: application/xml Accept: application/xml

Request Body	`<artifact-definition xmlns="http://www.hp.com/nfvd">`
	`  <categories>`
	`  <category>`
	`  <attributes>`
	`  <attribute>`
	`  <label>att1</label>`
	`  <default-value>att1 default</default-value>`
	`  <description>att1 description tessssst</description>`
	`  <mandatory>true</mandatory>`
	`  <order>1</order>`
	`  <type>Integer</type>`
	`  <unit>GHZ</unit>`
	`  </attribute>`
	`  </attributes>`
	`  <label>CAT2</label>`
	`  <order>2</order>`
	`  </category>`
	`  <category>`
	`  <attributes>`
	`  <attribute>`
	`  <label>att1</label>`
	`  <default-value>att1 default</default-value>`
	`  <description>att1 description test</description>`
	`  <mandatory>true</mandatory>`
	`  <order>1</order>`
	`  <type>Integer</type>`
	`  <unit>MB</unit>`
	`  </attribute>`
	`  <attribute>`
	`  <label>att2</label>`
	`  <default-value>att2 default</default-value>`
	`  <description>att2 description</description>`
	`  <mandatory>true</mandatory>`
	`  <order>2</order>`
	`  <type>String</type>`
	`  <unit>MB</unit>`
	`  </attribute>`
	`  </attributes>`
	`  <label>CAT</label>`
	`  <order>1</order>`
	`  </category>`
	`  </categories>`
	`  <available-status>`
	`  <status>`
	`  <enabled>true</enabled>`
	`  <label>FAILED</label>`
	`  <visible-label>FAILED</visible-label>`
	`  </status>`
	`  <status>`
	`  <enabled>true</enabled>`

	`<label>OK</label>`
	`<visible-label>OK</visible-label>`
	`</status>`
	`</available-status>`
	`<category>GENERIC</category>`
	`<enabled>false</enabled>`
	`<family>VNF_COMPONENT2</family>`
	`<physical>false</physical>`
	`</artifact-definition>`

RAW request example	`PUT http://localhost:8080/nfvd/definition/artifact/1065 HTTP/1.1`
	`Accept-Encoding: gzip,deflate`
	`Content-Type: application/xml`
	`Accept: application/xml`
	`Content-Length: 1869`
	`Host: localhost:8080`
	`Connection: Keep-Alive`
	`User-Agent: Apache-HttpClient/4.1.1 (java 1.5)`
	
	`<artifact-definition>`
	……
	`(see request body)`
	……
	`</artifact-definition>`

RAW Success response example	`HTTP/1.1 200 OK`
	`Server: Apache-Coyote/1.1`
	`Content-Type: application/xml`
	`Content-Length: 1328`
	`Date: Fri, 08 May 2015 08:22:46 GMT`
	
	`<artifact-definition id="1065" uri="/nfvd/definition/artifact/1065"`
	`xmlns="http://www.hp.com/nfvd">`
	`<categories>`
	`<category>`
	`<attributes>`
	`<attribute>`
	`<label>att1</label>`
	`<default-value>att1 default</default-value>`
	`<description>att1 description tesssssst</description>`
	`<mandatory>true</mandatory>`
	`<order>1</order>`
	`<type>Integer</type>`
	`<unit>GHZ</unit>`
	`</attribute>`
	`</attributes>`
	`<label>CAT2</label>`
	`<order>2</order>`
	`</category>`
	`<category>`
	`<attributes>`
	`<attribute>`
	`<label>att1</label>`
	`<default-value>att1 default</default-value>`
	`<description>att1 description test</description>`
	`<mandatory>true</mandatory>`
	`<order>1</order>`
	`<type>Integer</type>`
	`<unit>MB</unit>`
	`</attribute>`
	`<attribute>`
	`<label>att2</label>`
	`<default-value>att2 default</default-value>`

	`<description>att2 description</description>`
	`<mandatory>true</mandatory>`
	`<order>2</order>`
	`<type>String</type>`
	`<unit>MB</unit>`
	`</attribute>`
	`</attributes>`
	`<label>CAT</label>`
	`<order>1</order>`
	`</category>`
	`</categories>`
	`<available-status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>FAILED</label>`
	`<visible-label>FAILED</visible-label>`
	`</status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>OK</label>`
	`<visible-label>OK</visible-label>`
	`</status>`
	`</available-status>`
	`<category>GENERIC</category>`
	`<enabled>false</enabled>`
	`<family>VNF_COMPONENT2</family>`
	`<physical>false</physical>`
	`</artifact-definition></artifact-definitions>`

Possible errors	400 Bad request: Request syntax error
	404 Not found: Artifact does not exist
	500 Internal server error: An unexpected error occurred processing the request

2.4.5.2 JSON

Description	Update an artifact definition identified by the given id in JSON format
HTTP method	`PUT`
Resource	`/nfvd/definition/artifact/{id}`
Query Parameters	Not needed
Relevant Headers	`Content-Type: application/json`
	`Accept: application/json`

Request Body	`{`
	`"family": "VNF_COMPONENT2",`
	`"category": "GENERIC",`
	`"group": null,`
	`"type": null,`
	`"subtype": null,`
	`"version": null,`
	`"physical": false,`
	`"enabled": false,`
	`"available-status": [`
	`{`
	`"enabled": true,`
	`"label": "FAILED",`
	`"visible-label": "FAILED"`
	`},`
	`{`
	`"enabled": true,`
	`"label": "OK",`

	"visible-label": "OK"
	},
	{
	"enabled": true,
	"label": "TEST",
	"visible-label": "TEST"
	}
	],
	"categories": [
	{
	"order": 2,
	"attributes": [{
	"order": 1,
	"mandatory": true,
	"description": "att1 description tessssst",
	"type": "Integer",
	"unit": "GHZ",
	"label": "att1",
	"default-value": "att1 default"
	}],
	"label": "CAT2"
	},
	{
	"order": 1,
	"attributes": [
	{
	"order": 1,
	"mandatory": true,
	"description": "att1 description test",
	"type": "Integer",
	"unit": "MB",
	"label": "att1",
	"default-value": "att1 default"
	},
	{
	"order": 2,
	"mandatory": true,
	"description": "att2 description",
	"type": "String",
	"unit": "MB",
	"label": "att2",
	"default-value": "att2 default"
	}
	],
	"label": "CAT"
	}
	]
	}

RAW request example	PUT http://localhost:8080/nfvd/definition/artifact/1065 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 1625 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) { "family": "VNF_COMPONENT2", …… (see request body) …… "label": "CAT"

	}] }

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 08:25:12 GMT
	
	{
	"family": "VNF COMPONENT2",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null,
	"physical": false,
	"enabled": false,
	"available-status": [
	{
	"enabled": true,
	"label": "TEST",
	"visible-label": "TEST"
	},
	{
	"enabled": true,
	"label": "FAILED",
	"visible-label": "FAILED"
	},
	{
	"enabled": true,
	"label": "OK",
	"visible-label": "OK"
	}
	],
	"categories": [
	{
	"order": 2,
	"attributes": [{
	"order": 1,
	"mandatory": true,
	"description": "att1 description tessssst",
	"type": "Integer",
	"unit": "GHZ",
	"label": "att1",
	"default-value": "att1 default"
	}],
	"label": "CAT2"
	},
	{
	"order": 1,
	"attributes": [
	{
	"order": 1,
	"mandatory": true,
	"description": "att1 description test",
	"type": "Integer",
	"unit": "MB",
	"label": "att1",
	"default-value": "att1 default"
	},
	{
	"order": 2,

	"mandatory": true, "description": "att2 description", "type": "String", "unit": "MB", "label": "att2", "default-value": "att2 default" }], "label": "CAT" }], "@uri": "/nfvd/definition/artifact/1065", "@id": "1065" }
Possible errors	400 Bad request: Request syntax error
	404 Not found: Artifact does not exist
	500 Internal server error: An unexpected error occurred processing the request

2.4.6 Update a list of artifact definition

2.4.6.1 XML

Description	Update a list of artifact definition in XML format
HTTP method	PUT
Resource	/nfvd/definition/artifact/
Query Parameters	Not needed
Relevant Headers	Content-Type: application/xml Accept: application/xml

Request Body	`<artifact-definitions xmlns="http://www.hp.com/nfvd">`
	`  <artifact-definition>`
	`  <categories>`
	`  <category>`
	`  <attributes>`
	`  <attribute>`
	`  <label>att1</label>`
	`  <default-value>att1 default</default-value>`
	`  <description>att1 description</description>`
	`  <mandatory>true</mandatory>`
	`  <order>1</order>`
	`  <type>Integer</type>`
	`  <unit>GHZ</unit>`
	`  </attribute>`
	`  </attributes>`
	`  <label>CAT2</label>`
	`  <order>2</order>`
	`  </category>`
	`  <category>`
	`  <attributes>`
	`  <attribute>`
	`  <label>att1</label>`
	`  <default-value>att1 default</default-value>`
	`  <description>att1 description test</description>`
	`  <mandatory>true</mandatory>`
	`  <order>1</order>`
	`  <type>Integer</type>`
	`  <unit>MB</unit>`
	`  </attribute>`
	`  <attribute>`
	`  <label>att2</label>`
	`  <default-value>att2 default</default-value>`
	`  <description>att2 description</description>`
	`  <mandatory>true</mandatory>`
	`  <order>2</order>`
	`  <type>String</type>`
	`  <unit>MB</unit>`
	`  </attribute>`
	`  </attributes>`
	`  <label>CAT</label>`
	`  <order>1</order>`
	`  </category>`
	`  </categories>`
	`  <available-status>`
	`  <status>`
	`  <enabled>true</enabled>`
	`  <label>FAILED</label>`
	`  <visible-label>FAILED</visible-label>`
	`  </status>`

	```<status><enabled>true</enabled><label>OK</label><visible-label>OK</visible-label></status></available-status><category>GENERIC</category><enabled>false</enabled><family>VNF COMPONENT2</family><physical>false</physical></artifact-definition></artifact-definitions>```

RAW request example	```PUT http://localhost:8080/nfvd/definition/artifact HTTP/1.1
	Accept-Encoding: gzip,deflate
	Content-Type: application/xml
	Accept: application/xml
	Content-Length: 1966
	Host: localhost:8080
	Connection: Keep-Alive
	User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
	
	<artifact-definitions xmlns="http://www.hp.com/nfvd">```
	……
	(see request body)
	……
	```</artifact-definitions>```

RAW Success response example	```HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 1364 Date: Fri, 08 May 2015 08:59:27 GMT <artifact-definitions xmlns="http://www.hp.com/nfvd"> <artifact-definition id="1065" uri="/nfvd/definition/artifact/1065">```


```
<categories>
<category>
<attributes>
<attribute>
<label>att1</label>
<default-value>att1 default</default-value>
<description>att1 description</description>
<mandatory>true</mandatory>
<order>1</order>
<type>Integer</type>
<unit>GHZ</unit>
</attribute>
</attributes>
<label>CAT2</label>
<order>2</order>
</category>
<category>
<attributes>
<attribute>
<label>att1</label>
<default-value>att1 default</default-value>
<description>att1 description test</description>
<mandatory>true</mandatory>
<order>1</order>
<type>Integer</type>
<unit>MB</unit>
```

	`</attribute>`
	`<attribute>`
	`<label>att2</label>`
	`<default-value>att2 default</default-value>`
	`<description>att2 description</description>`
	`<mandatory>true</mandatory>`
	`<order>2</order>`
	`<type>String</type>`
	`<unit>MB</unit>`
	`</attribute>`
	`</attributes>`
	`<label>CAT</label>`
	`<order>1</order>`
	`</category>`
	`</categories>`
	`<available-status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>FAILED</label>`
	`<visible-label>FAILED</visible-label>`
	`</status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>OK</label>`
	`<visible-label>OK</visible-label>`
	`</status>`
	`</available-status>`
	`<category>GENERIC</category>`
	`<enabled>false</enabled>`
	`<family>VNF COMPONENT2</family>`
	`<physical>false</physical>`
	`</artifact-definition>`
	`</artifact-definitions>`

Possible errors	400 Bad request: Request syntax error
	404 Not found: Artifact(s) does not exist
	500 Internal server error: An unexpected error occurred processing the request

2.4.6.2 JSON

Description	Update a list of artifact definition in JSON format
HTTP method	`PUT`
Resource	`/nfvd/definition/artifact/`
Query Parameters	Not needed
Relevant Headers	`Content-Type: application/json`
	`Accept: application/json`

Request Body	`{"artifact-definitions": [{`
	`"family": "VNF COMPONENT7",`
	`"category": "GENERIC",`
	`"group": null,`
	`"type": null,`
	`"subtype": null,`
	`"version": null,`
	`"physical": false,`
	`"enabled": true,`
	`"available-status": [`
	`{`
	`"enabled": true,`
	`"label": "RUNNING",`

```
            "visible-label": "VNF Component up and runnig"
        },
            {
            "enabled": true,
            "label": "ENABLED",
            "visible-label": "ENABLED"
        },
            {
            "enabled": true,
            "label": "ACTIVE",
            "visible-label": "ACTIVE"
        },
            {
            "enabled": true,
            "label": "RESERVED",
            "visible-label": "RESERVED"
        },
            {
            "enabled": true,
            "label": "ERROR",
            "visible-label": "VNF Component up but with errors"
        },
            {
            "enabled": true,
            "label": "STOPPED",
            "visible-label": "VNF Component created but not started"
        },
            {
            "enabled": true,
            "label": "INSTANTIATED",
            "visible-label": "INSTANTIATED"
        },
            {
            "enabled": true,
            "label": "DISABLED",
            "visible-label": "DISABLED"
        },
            {
            "enabled": true,
            "label": "LOCKED",
            "visible-label": "LOCKED"
        },
            {
            "enabled": true,
            "label": "CHECKED",
            "visible-label": "CHECKED"
        },
            {
            "enabled": true,
            "label": "DESIGNED",
            "visible-label": "DESIGNED"
        },
            {
            "enabled": true,
            "label": "TERMINATED",
            "visible-label": "TERMINATED"
        },
            {
            "enabled": true,
            "label": "PROVISIONED",
            "visible-label": "PROVISIONED"
        }
    ],
```

```
"categories":    [
         {
      "order": 1,
      "attributes":          [
                     {
            "order": 1,
            "mandatory": false,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Name",
            "default-value": "Name of the artifac"
         },
                     {
            "order": 2,
            "mandatory": false,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Descripton",
            "default-value": "Descripton"
         }
      ],
      "label": "GENERAL"
   },
         {
      "order": 2,
      "attributes":          [
                     {
            "order": 6,
            "mandatory": false,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "additionalText",
            "default-value": null
         },
                     {
            "order": 3,
            "mandatory": true,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Source",
            "default-value": null
         },
                     {
            "order": 4,
            "mandatory": false,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "LifeCycle State",
            "default-value": null
         },
                     {
            "order": 5,
            "mandatory": false,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "LifeCycle_State_Date",
            "default-value": null
```

```
            },
                        {
               "order": 2,
               "mandatory": false,
               "description": null,
               "type": "Date",
               "unit": "Date",
               "label": "Operational_Status_Date",
               "default-value": null
            },
                        {
               "order": 1,
               "mandatory": false,
               "description": null,
               "type": "TEXT",
               "unit": "TEXT",
               "label": "Operational_Status",
               "default-value": null
            },
                        {
               "order": 7,
               "mandatory": false,
               "description": null,
               "type": "TEXT",
               "unit": "TEXT",
               "label": "Test",
               "default-value": "kk"
            }
         ],
         "label": "STATUS"
      },
            {
         "order": 3,
         "attributes":          [
                        {
               "order": 1,
               "mandatory": false,
               "description": null,
               "type": "TEXT",
               "unit": "TEXT",
               "label": "Operation",
               "default-value": null
            },
                        {
               "order": 2,
               "mandatory": false,
               "description": null,
               "type": "TEXT",
               "unit": "TEXT",
               "label": "Result code",
               "default-value": null
            },
                        {
               "order": 3,
               "mandatory": false,
               "description": null,
               "type": "TEXT",
               "unit": "TEXT",
               "label": "Result_description",
               "default-value": null
            }
         ],
         "label": "LAST_OPERATION"
```

	}] }]}
RAW request example	PUT http://localhost:8080/nfvd/definition/artifact HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 5570 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) {"artifact-definitions": [{ …… (see request body) ……] }]}

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 09:09:51 GMT
	
	<{"artifact-definitions": [{
	"family": "VNF_COMPONENT7",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null,
	"physical": false,
	"enabled": true,
	"available-status": [
	{
	"enabled": true,
	"label": "RUNNING",
	"visible-label": "VNF Component up and runnig"
	},
	{
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	{
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	{
	"enabled": true,
	"label": "RESERVED",
	"visible-label": "RESERVED"
	},
	{
	"enabled": true,
	"label": "ERROR",
	"visible-label": "VNF Component up but with errors"
	},
	{
	"enabled": true,
	"label": "STOPPED",

```
            "visible-label": "VNF Component created but not started"
        },
            {
            "enabled": true,
            "label": "DISABLED",
            "visible-label": "DISABLED"
        },
            {
            "enabled": true,
            "label": "INSTANTIATED",
            "visible-label": "INSTANTIATED"
        },
            {
            "enabled": true,
            "label": "LOCKED",
            "visible-label": "LOCKED"
        },
            {
            "enabled": true,
            "label": "CHECKED",
            "visible-label": "CHECKED"
        },
            {
            "enabled": true,
            "label": "DESIGNED",
            "visible-label": "DESIGNED"
        },
            {
            "enabled": true,
            "label": "TERMINATED",
            "visible-label": "TERMINATED"
        },
            {
            "enabled": true,
            "label": "PROVISIONED",
            "visible-label": "PROVISIONED"
        }
    ],
    "categories":    [
            {
            "order": 1,
            "attributes":          [
                        {
                "order": 1,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Name",
                "default-value": "Name of the artifac"
            },
                        {
                "order": 2,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Descripton",
                "default-value": "Descripton"
            }
            ],
            "label": "GENERAL"
        },
```

```
            {
        "order": 2,
        "attributes":          [
                        {
              "order": 6,
              "mandatory": false,
              "description": null,
              "type": "TEXT",
              "unit": "TEXT",
              "label": "additionalText",
              "default-value": null
           },
                        {
              "order": 7,
              "mandatory": false,
              "description": null,
              "type": "TEXT",
              "unit": "TEXT",
              "label": "Test",
              "default-value": "kk"
           },
                        {
              "order": 3,
              "mandatory": true,
              "description": null,
              "type": "TEXT",
              "unit": "TEXT",
              "label": "Source",
              "default-value": null
           },
                        {
              "order": 4,
              "mandatory": false,
              "description": null,
              "type": "TEXT",
              "unit": "TEXT",
              "label": "LifeCycle_State",
              "default-value": null
           },
                        {
              "order": 5,
              "mandatory": false,
              "description": null,
              "type": "Date",
              "unit": "Date",
              "label": "LifeCycle_State_Date",
              "default-value": null
           },
                        {
              "order": 2,
              "mandatory": false,
              "description": null,
              "type": "Date",
              "unit": "Date",
              "label": "Operational_Status_Date",
              "default-value": null
           },
                        {
              "order": 1,
              "mandatory": false,
              "description": null,
              "type": "TEXT",
              "unit": "TEXT",
```

```
                "label": "Operational_Status",
                "default-value": null
            }
        ],
        "label": "STATUS"
    },
            {
        "order": 3,
        "attributes":          [
                        {
                "order": 1,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Operation",
                "default-value": null
            },
                        {
                "order": 3,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Result_description",
                "default-value": null
            },
                        {
                "order": 2,
                "mandatory": false,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Result_code",
                "default-value": null
            }
        ],
        "label": "LAST OPERATION"
    }
  ],
  "@uri": "/nfvd/definition/artifact/1068",
  "@id": "1068"
}]}
```


Possible errors	400 Bad request: Request syntax error
	404 Not found: Artifact(s) does not exist
	500 Internal server error: An unexpected error occurred processing the request

2.4.7 Delete artifact definition by id

2.4.7.1 XML-JSON

Description	Delete artifact definition by its id
HTTP method	DELETE
Resource	/nfvd/definition/artifact/{id}
Query Parameters	Not needed
Relevant Headers	Not needed
Request Body	Not needed
RAW request example	DELETE http://localhost:8080/nfvd/definition/artifact/1068 HTTP/1.1 Accept-Encoding: gzip,deflate Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 09:18:26 GMT
Possible errors	404 Not found: Artifact does not exist
	500 Internal server error: An unexpected error occurred processing the request

2.4.8 Delete artifact definition by definition parameters

2.4.8.1 XML-JSON

Description	Delete artifact definition by its definition parameters	
HTTP method	DELETE	
Resource	/nfvd/definition/artifact/	
Query Parameters	family	Optional (default=null)
	category	Optional (default=null)
	group	Optional (default=null)
	type	Optional (default=null)
	subtype	Optional (default=null)
Relevant Headers	Not needed	
Request Body	Not needed	
RAW request example	DELETE http://localhost:8080/nfvd/definition/artifact/1068 HTTP/1.1 Accept-Encoding: gzip,deflate Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 09:18:26 GMT	
Possible errors	404 Not found: Artifact does not exist	
	409 Conflict: Too many artifacts match the given definition	
	500 Internal server error: An unexpected error occurred processing the request	

2.5 Relationships

2.5.1 Get relationship definition by id

2.5.1.1 XML

Description	Get relationship definition by its id in XML format
HTTP method	GET
Resource	/nfvd/definition/relationship/{id}
Query Parameters	Not needed
Relevant Headers	Accept: application/xml
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/definition/relationship/480 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 700 Date: Fri, 08 May 2015 11:36:29 GMT <relationship-definition id="480" uri="/nfvd/definition/relationship/480" xmlns="http://www.hp.com/nfvd"> <child-artifact-definition> <category>GENERIC</category> <family>DATACENTER</family> </child-artifact-definition> <enabled>true</enabled> <parent-artifact-definition> <category>ENTITY_RANGE</category> <family>POLICY</family> </parent-artifact-definition> <categories/> <available-status> <status> <enabled>true</enabled> <label>DISABLED</label> <visible-label>ENABLED</visible-label> </status> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> </available-status> <type>OVER</type> </relationship-definition>
Possible errors	404 Not found: Realtionship does not exist

	500 Internal server error: An unexpected error occurred processing the request

2.5.1.2 JSON

Description	Get relationship definition by its id in JSON format
HTTP method	GET
Resource	/nfvd/definition/relationship/{id}
Query Parameters	Not needed
Relevant Headers	Accept: application/json
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/definition/relationship/480 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 11:38:32 GMT
	
	{
	"type": "OVER",
	"enabled": true,
	"parent-artifact-definition": {
	"family": "POLICY",
	"category": "ENTITY_RANGE",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"child-artifact-definition": {
	"family": "DATACENTER",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"available-status": [
	{
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "ENABLED"
	},
	{
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	}
	],
	"categories": [],

	"@uri": "/nfvd/definition/relationship/480", "@id": "480" }
Possible errors	404 Not found: Realtionship does not exist
	500 Internal server error: An unexpected error occurred processing the request

2.5.2 Get relationship definition list by definition parameters

2.5.2.1 XML

Description	Get relationship definition list by definition parameters in XML format	
HTTP method	GET	
Resource	/nfvd/definition/relationship/	
Query Parameters	parentFamily	Optional (default=null)
	parentCategory	Optional (default=null)
	parentGroup	Optional (default=null)
	parentType	Optional (default=null)
	parentSubtype	Optional (default=null)
	childFamily	Optional (default=null)
	childCategory	Optional (default=null)
	childGroup	Optional (default=null)
	childType	Optional (default=null)
	childSubtype	Optional (default=null)
	relationshipType	Optional (default=null)
	exactMatching	Optional (default=false)
Relevant Headers	Accept: application/xml	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/definition/relationship?parentFamily=VNF &parentCategory=GENERIC&childFamily=VNF COMPONENT&childCategory=GEN ERIC HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 751 Date: Fri, 08 May 2015 11:47:05 GMT <relationship-definitions xmlns="http://www.hp.com/nfvd"> <relationship-definition id="256" uri="/nfvd/definition/relationship/256"> <child-artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </child-artifact-definition> <enabled>true</enabled> <parent-artifact-definition> <category>GENERIC</category> <family>VNF</family> </parent-artifact-definition> <categories/> <available-status> <status>	

	`<enabled>true</enabled>`
	`<label>ENABLED</label>`
	`<visible-label>ENABLED</visible-label>`
	`</status>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>DISABLED</label>`
	`<visible-label>ENABLED</visible-label>`
	`</status>`
	`</available-status>`
	`<type>INCLUDE</type>`
	`</relationship-definition>`
	`</relationship-definitions>`

Possible errors	500 Internal server error: An unexpected error occurred processing the request

2.5.2.2 JSON

Description	Get relationship definition list by definition parameters in JSON format	
HTTP method	`GET`	
Resource	`/nfvd/definition/relationship/`	
Query Parameters	parentFamily	Optional (default=null)
	parentCategory	Optional (default=null)
	parentGroup	Optional (default=null)
	parentType	Optional (default=null)
	parentSubtype	Optional (default=null)
	childFamily	Optional (default=null)
	childCategory	Optional (default=null)
	childGroup	Optional (default=null)
	childType	Optional (default=null)
	childSubtype	Optional (default=null)
	relationshipType	Optional (default=null)
	exactMatching	Optional (default=false)
Relevant Headers	`Accept: application/json`	
Request Body	Not needed	

RAW request example	`GET http://localhost:8080/nfvd/definition/relationship?parentFamily=VNF&parentCategory=GENERIC&childFamily=VNF_COMPONENT&childCategory=GENERIC HTTP/1.1`
	`Accept-Encoding: gzip,deflate`
	`Accept: application/json`
	`Host: localhost:8080`
	`Connection: Keep-Alive`
	`User-Agent: Apache-HttpClient/4.1.1 (java 1.5)`	

RAW Success response example	`HTTP/1.1 200 OK`
	`Server: Apache-Coyote/1.1`
	`Content-Type: application/json`
	`Transfer-Encoding: chunked`
	`Date: Fri, 08 May 2015 11:49:05 GMT`	

	{"relationship-definitions": [{
	"type": "INCLUDE",
	"enabled": true,
	"parent-artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"child-artifact-definition": {
	"family": "VNF_COMPONENT",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"available-status": [
	{
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	{
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "ENABLED"
	}
	],
	"categories": [],
	"@uri": "/nfvd/definition/relationship/256",
	"@id": "256"
	}]}

Possible errors	500 Internal server error: An unexpected error occurred processing the request

2.5.3 Create a list of relationship definition

2.5.3.1 XML

Description	Create a list relationship definition in XML format
HTTP method	POST
Resource	/nfvd/definition/relationship/
Query Parameters	Not needed
Relevant Headers	Content-Type: application/xml Accept: application/xml
Request Body	<relationship-definitions xmlns="http://www.hp.com/nfvd"> <relationship-definition > <child-artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </child-artifact-definition> <enabled>true</enabled> <parent-artifact-definition> <category>GENERIC</category> <family>VNF</family> </parent-artifact-definition> <categories/> <available-status> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <status> <enabled>true</enabled> <label>DISABLED</label> <visible-label>ENABLED</visible-label> </status> </available-status> <type>TEST</type> </relationship-definition> </relationship-definitions>
RAW request example	POST http://localhost:8080/nfvd/definition/relationship HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 923 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <relationship-definitions> …… (see request body) …… </relationship-definitions>
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 748 Date: Fri, 08 May 2015 11:52:58 GMT <relationship-definitions xmlns="http://www.hp.com/nfvd"> <relationship-definition id="774"

	uri="/nfvd/definition/relationship/774"> <child-artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </child-artifact-definition> <enabled>true</enabled> <parent-artifact-definition> <category>GENERIC</category> <family>VNF</family> </parent-artifact-definition> <categories/> <available-status> <status> <enabled>true</enabled> <label>DISABLED</label> <visible-label>ENABLED</visible-label> </status> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> </available-status> <type>TEST</type> </relationship-definition> </relationship-definitions>
Possible errors	400 Bad request: Request syntax error
	409 Conflict: Relationship(s) already exists
	500 Internal server error: An unexpected error occurred processing the request

2.5.3.2 JSON

Description	Create a list relationship definition in JSON format
HTTP method	POST
Resource	/nfvd/definition/relationship/
Query Parameters	Not needed
Relevant Headers	Content-Type: application/json
	Accept: application/json

Request Body	{"relationship-definitions": [{
	  "type": "TEST1",
	  "enabled": true,
	  "parent-artifact-definition": {
	  "family": "VNF",
	  "category": "GENERIC",
	  "group": null,
	  "type": null,
	  "subtype": null,
	  "version": null
	  },
	  "child-artifact-definition": {
	  "family": "VNF_COMPONENT",
	  "category": "GENERIC",
	  "group": null,
	  "type": null,
	  "subtype": null,
	  "version": null
	  },
	  "available-status": [

	{
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	{
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "ENABLED"
	}
	],
	"categories": []
	}]}

RAW request example	POST http://localhost:8080/nfvd/definition/relationship HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 730 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) {"relationship-definitions": [{…… (see request body) …… "categories": [] }]}

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 11:56:09 GMT
	
	{"relationship-definitions": [{
	"type": "TEST1",
	"enabled": true,
	"parent-artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"child-artifact-definition": {
	"family": "VNF_COMPONENT",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"available-status": [
	{
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	{
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "ENABLED"

	`}`
	`],`
	`"categories": [],`
	`"@uri": "/nfvd/definition/relationship/776",`
	`"@id": "776"`
	`}]}`

Possible errors	400 Bad request: Request syntax error
	409 Conflict: Relationship(s) already exists
	500 Internal server error: An unexpected error occurred processing the request

2.5.4 Update a relationship definition by id

2.5.4.1 XML

Description	Update a relationship definition identified by the given id in XML format
HTTP method	PUT
Resource	/nfvd/definition/relationship/{id}
Query Parameters	Not needed
Relevant Headers	Content-Type: application/xml Accept: application/xml
Request Body	<relationship-definition xmlns="http://www.hp.com/nfvd"> <child-artifact-definition> <category>GENERIC</category> <family>VNF COMPONENT</family> </child-artifact-definition> <enabled>true</enabled> <parent-artifact-definition> <category>GENERIC</category> <family>VNF</family> </parent-artifact-definition> <categories/> <available-status> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <status> <enabled>true</enabled> <label>DISABLED</label> <visible-label>ENABLED</visible-label> </status> <status> <enabled>true</enabled> <label>TEST</label> <visible-label>TEST</visible-label> </status> </available-status> <type>TEST1</type> </relationship-definition>
RAW request example	PUT http://localhost:8080/nfvd/definition/relationship/776 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 970 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <relationship-definition xmlns="http://www.hp.com/nfvd"> …… (see request body) …… </relationship -definition>
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 790

	Date: Fri, 08 May 2015 12:02:22 GMT < <relationship-definition id="776" uri="/nfvd/definition/relationship/776" xmlns="http://www.hp.com/nfvd">
<child-artifact-definition>
<category>GENERIC</category>
<family>VNF_COMPONENT</family>
</child-artifact-definition>
<enabled>true</enabled>
<parent-artifact-definition>
<category>GENERIC</category>
<family>VNF</family>
</parent-artifact-definition>
<categories/>
<available-status>
<status>
<enabled>true</enabled>
<label>ENABLED</label>
<visible-label>ENABLED</visible-label>
</status>
<status>
<enabled>true</enabled>
<label>TEST</label>
<visible-label>TEST</visible-label>
</status>
<status>
<enabled>true</enabled>
<label>DISABLED</label>
<visible-label>ENABLED</visible-label>
</status>
</available-status>
<type>TEST1</type>
</relationship-definition>
Possible errors	400 Bad request: Request syntax error
	404 Not found: Relationship does not exist
	500 Internal server error: An unexpected error occurred processing the request

2.5.4.2 JSON

Description	Update a relationship definition identified by the given id in JSON format
HTTP method	PUT
Resource	/nfvd/definition/relationship/{id}
Query Parameters	Not needed
Relevant Headers	Content-Type: application/json
	Accept: application/json

Request Body	{
	"type": "OVER",
	"enabled": true,
	"parent-artifact-definition": {
	"family": "POLICY",
	"category": "ENTITY_RANGE",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"child-artifact-definition": {
	"family": "DATACENTER",

	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"available-status": [
	{
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "ENABLED"
	},
	{
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	{
	"enabled": true,
	"label": "TEST",
	"visible-label": "TEST"
	}
	],
	"categories": []
	}

RAW request example	PUT http://localhost:8080/nfvd/definition/relationship/480 HTTP/1.1
	Accept-Encoding: gzip,deflate
	Content-Type: application/json
	Accept: application/json
	Content-Length: 810
	Host: localhost:8080
	Connection: Keep-Alive
	User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
	
	{
	"type": "OVER",
	……
	(see request body)
	……
	"categories": []
	}

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 12:05:59 GMT
	
	{
	"type": "OVER",
	"enabled": true,
	"parent-artifact-definition": {
	"family": "POLICY",
	"category": "ENTITY_RANGE",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"child-artifact-definition": {
	"family": "DATACENTER",
	"category": "GENERIC",
	"group": null,

	"type": null,
	"subtype": null,
	"version": null
	},
	"available-status": [
	{
	"enabled": true,
	"label": "TEST",
	"visible-label": "TEST"
	},
	{
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "ENABLED"
	},
	{
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	}
	],
	"categories": [],
	"@uri": "/nfvd/definition/relationship/480",
	"@id": "480"
	}

Possible errors	400 Bad request: Request syntax error
	404 Not found: Relationship does not exist
	500 Internal server error: An unexpected error occurred processing the request

2.5.5 Update a list of relationship definition

2.5.5.1 XML

Description	Update a list of relationship definition in XML format
HTTP method	PUT
Resource	/nfvd/definition/relationship/
Query Parameters	Not needed
Relevant Headers	Content-Type: application/xml Accept: application/xml
Request Body	<relationship-definitions xmlns="http://www.hp.com/nfvd"> <relationship-definition> <child-artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </child-artifact-definition> <enabled>true</enabled> <parent-artifact-definition> <category>GENERIC</category> <family>VNF</family> </parent-artifact-definition> <categories/> <available-status> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <status> <enabled>true</enabled> <label>DISABLED</label> <visible-label>ENABLED</visible-label> </status> <status> <enabled>true</enabled> <label>FOO</label> <visible-label>FOO</visible-label> </status> </available-status> <type>TEST</type> </relationship-definition> </relationship-definitions>
RAW request example	PUT http://localhost:8080/nfvd/definition/relationship HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 1026 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <relationship-definitions xmlns="http://www.hp.com/nfvd"> …… (see request body) …… </relationship -definitions>
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1

	Content-Type: application/xml Content-Length: 840 Date: Fri, 08 May 2015 12:11:32 GMT <relationship-definitions xmlns="http://www.hp.com/nfvd"> <relationship-definition id="774" uri="/nfvd/definition/relationship/774"> <child-artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </child-artifact-definition> <enabled>true</enabled> <parent-artifact-definition> <category>GENERIC</category> <family>VNF</family> </parent-artifact-definition> <categories/> <available-status> <status> <enabled>true</enabled> <label>DISABLED</label> <visible-label>ENABLED</visible-label> </status> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <status> <enabled>true</enabled> <label>FOO</label> <visible-label>FOO</visible-label> </status> </available-status> <type>TEST</type> </relationship-definition> </relationship-definitions>
Possible errors	400 Bad request: Request syntax error
	404 Not found: Relationship(s) does not exist
	500 Internal server error: An unexpected error occurred processing the request

2.5.5.2 JSON

Description	Update a list of relationship definition in JSON format
HTTP method	PUT
Resource	/nfvd/definition/relationship/
Query Parameters	Not needed
Relevant Headers	Content-Type: application/json
	Accept: application/json

Request Body	{"relationship-definitions": [{
	"type": "TEST1",
	"enabled": true,
	"parent-artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,

	"version": null
	},
	"child-artifact-definition": {
	"family": "VNF_COMPONENT",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"available-status": [
	{
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	{
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "DISABLED"
	}
	],
	"categories": []
	}]}

RAW request example	PUT http://localhost:8080/nfvd/definition/relationship HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 731 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) {"relationship-definitions": [{ …… (see request body) …… "categories": [] }]}

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 12:16:59 GMT
	
	{"relationship-definitions": [{
	"type": "TEST1",
	"enabled": true,
	"parent-artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"child-artifact-definition": {
	"family": "VNF_COMPONENT",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,

	"version": null
	},
	"available-status": [
	{
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	{
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "DISABLED"
	}
	],
	"categories": [],
	"@uri": "/nfvd/definition/relationship/776",
	"@id": "776"
	}]}

Possible errors	400 Bad request: Request syntax error
	404 Not found: Artifact(s) does not exist
	500 Internal server error: An unexpected error occurred processing the request

2.5.6 Delete relationship definition by id

2.5.6.1 XML-JSON

Description	Delete relationship definition by its id
HTTP method	DELETE
Resource	/nfvd/definition/relationship/{id}
Query Parameters	Not needed
Relevant Headers	Not needed
Request Body	Not needed
RAW request example	DELETE http://localhost:8080/nfvd/definition/relationship/777 HTTP/1.1 Accept-Encoding: gzip,deflate Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 12:19:49 GMT
Possible errors	404 Not found: Relationship does not exist
	500 Internal server error: An unexpected error occurred processing the request

2.5.7 Delete relationship definition by definition parameters

2.5.7.1 XML-JSON

Description	Delete artifact definition by its definition parameters	
HTTP method	DELETE	
Resource	/nfvd/definition/artifact/	
Query Parameters	parentFamily	Optional (default=null)
	parentCategory	Optional (default=null)
	parentGroup	Optional (default=null)
	parentType	Optional (default=null)
	parentSubtype	Optional (default=null)
	childFamily	Optional (default=null)
	childCategory	Optional (default=null)
	childGroup	Optional (default=null)
	childType	Optional (default=null)
	childSubtype	Optional (default=null)
	relationshipType	Optional (default=null)
	exactMatching	Optional (default=false)
Relevant Headers	Not needed	
Request Body	Not needed	
RAW request example	DELETE http://localhost:8080/nfvd/definition/relationship?parentFamily=VNF &parentCategory=GENERIC&childFamily=VNF COMPONENT&childCategory=GEN ERIC&relationshipType=TESTN HTTP/1.1 Accept-Encoding: gzip,deflate Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 12:26:08 GMT	
Possible errors	404 Not found: Relationship does not exist	
	409 Conflict: Too many relationships match the given definition	
	500 Internal server error: An unexpected error occurred processing the request	

Chapter 3

Templates

In this chapter you will find all operations related to Templates.

3.1 Get template from date

3.1.1 XML

Description	Get template (artifacts and relationships) from date	
HTTP method	GET	
Resource	/nfvd/template/query/elements	
Query Parameters	from	Mandatory
Relevant Headers	Accept: application/xml	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/query/elements?from=2015-04-10T08%3A07%3A12.044%2B0100 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Transfer-Encoding: chunked Date: Thu, 07 May 2015 11:32:57 GMT <template xmlns="http://www.hp.com/nfvd"> <artifact-templates> <artifact-template id="65c87ea2-fb64-4bda-9206-c049fc74ac6a" uri="/nfvd/template/artifact/65c87ea2-fb64-4bda-9206-c049fc74ac6a"> <creation-timestamp>2015-04-10T10:07:09.329+0200</creation-timestamp> <id>65c87ea2-fb64-4bda-9206-c049fc74ac6a</id> <identifier>VNF_ENDPOINT:65c87ea2-fb64-4bda-9206-c049fc74ac6a</identifier> <physical>false</physical> <update-timestamp>2015-04-10T10:07:09.519+0200</update-timestamp> </artifact-template> ... </artifact-templates> <relationship-templates> <relationship-template id="168" uri="/nfvd/template/relationship/168"> <child-artifact-id>ee4c5508-6b10-4e1a-a51e-20c97fbdd3bc</child-artifact-id> <creation-timestamp>2015-04-10T10:07:03.583+0200</creation-timestamp> <parent-artifact-id>ebeb2670-9c1b-4be5-bc8b-73cddd11c633</parent-artifact-id> <relationship-type>CONNECTED</relationship-type> <update-timestamp>2015-04-10T10:07:03.583+0200</update-timestamp> </relationship-template>	

	... </relationship-templates> </template>
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	500 Internal server error: An unexpected error occurred processing the request

3.1.2 JSON

Description	Get template (artifacts and relationships) from date	
HTTP method	GET	
Resource	/nfvd/template/query/elements	
Query Parameters	from	Mandatory
Relevant Headers	Accept: application/json	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/query/elements?from=2015-04-10T08%3A07%3A12.044%2B0100 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Thu, 07 May 2015 11:33:37 GMT { "artifact-templates": [{ "id": "65c87ea2-fb64-4bda-9206-c049fc74ac6a", "identifier": "VNF ENDPOINT:65c87ea2-fb64-4bda-9206-c049fc74ac6a", "physical": false, "artifact-version": null, "creation-timestamp": "2015-04-10T10:07:09.329+0200", "update-timestamp": "2015-04-10T10:07:09.519+0200", "@uri": "/nfvd/template/artifact/65c87ea2-fb64-4bda-9206-c049fc74ac6a", "@id": "65c87ea2-fb64-4bda-9206-c049fc74ac6a" }, ... { "creation-timestamp": "2015-04-10T10:07:03.583+0200", "update-timestamp": "2015-04-10T10:07:03.583+0200", "parent-artifact-id": "ebeb2670-9c1b-4be5-bc8b-73cddd11c633", "child-artifact-id": "ee4c5508-6b10-4e1a-a51e-20c97fbdd3bc", "relationship-type": "CONNECTED", "@uri": "/nfvd/template/relationship/168", "@id": "168"	

| | ```
        },
...
    ]
}
``` |
| Possible errors | 400 Bad request: mandatory parameter is not send or has a bad format. |
| | 500 Internal server error: An unexpected error occurred processing the request |
```

3.2 Get template elements recursively

3.2.1 XML

Description	Get template (artifacts and relationships) recursively	
HTTP method	GET	
Resource	/nfvd/template/query/elements/recursively	
Query Parameters	artifactTemplateId	Mandatory
Relevant Headers	Accept: application/xml	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/query/elements/recursive?artifactTemplateId=65c87ea2-fb64-4bda-9206-c049fc74ac6a HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Transfer-Encoding: chunked Date: Thu, 07 May 2015 11:32:57 GMT <template xmlns="http://www.hp.com/nfvd"> <artifact-templates> <artifact-template id="65c87ea2-fb64-4bda-9206-c049fc74ac6a" uri="/nfvd/template/artifact/65c87ea2-fb64-4bda-9206-c049fc74ac6a"> <artifact-definition> <category>BIDIRECTIONAL</category> <family>VNF ENDPOINT</family> <group>OPENSTACK</group> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-04-10T10:07:09.329+0200</creation-timestamp> <id>65c87ea2-fb64-4bda-9206-c049fc74ac6a</id> <identifier>VNF_ENDPOINT:65c87ea2-fb64-4bda-9206-c049fc74ac6a</identifier> <physical>false</physical> <update-timestamp>2015-04-10T10:07:09.519+0200</update-timestamp> </artifact-template> ... </artifact-templates> <relationship-templates> <relationship-template id="69" uri="/nfvd/template/relationship/69">> <categories/> <child-artifact-id>f16b7494-d36f-481d-bf70-65458b0a1941</child-artifact-id> <creation-timestamp>2015-04-	

	10T10:07:10.880+0200</creation-timestamp> <parent-artifact-id>65c87ea2-fb64-4bda-9206-c049fc74ac6a</parent-artifact-id> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <relationship-type>IMPLEMENTS</relationship-type> <update-timestamp>2015-04-10T10:07:10.880+0200</update-timestamp> </relationship-template> ... </relationship-templates> </template>
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	500 Internal server error: An unexpected error occurred processing the request

3.2.2 JSON

Description	Get template (artifacts and relationships) recursively	
HTTP method	GET	
Resource	/nfvd/template/query/elements/recursively	
Query Parameters	artifactTemplateId	Mandatory
Relevant Headers	Accept: application/json	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/query/elements/recursive?artifactTemplateId=65c87ea2-fb64-4bda-9206-c049fc74ac6a HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Thu, 07 May 2015 11:59:29 GMT
	{
	"artifact-templates": [
	{
	"id": "65c87ea2-fb64-4bda-9206-c049fc74ac6a",
	"identifier": "VNF_ENDPOINT:65c87ea2-fb64-4bda-9206-c049fc74ac6a",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF_ENDPOINT",
	"category": "BIDIRECTIONAL",
	"group": "OPENSTACK",	

```
            "type": null,
            "subtype": null,
            "version": null
         },
         "status":          {
            "enabled": true,
            "label": "ENABLED",
            "visible-label": "ENABLED"
         },
         "creation-timestamp": "2015-04-10T10:07:09.329+0200",
         "update-timestamp": "2015-04-10T10:07:09.519+0200",
         "@uri": "/nfvd/template/artifact/65c87ea2-fb64-4bda-9206-
c049fc74ac6a",
         "@id": "65c87ea2-fb64-4bda-9206-c049fc74ac6a"
      },
...
   ],
   "relationship-templates":    [
            {
         "categories": [],
         "status":          {
            "enabled": true,
            "label": "ENABLED",
            "visible-label": "ENABLED"
         },
         "creation-timestamp": "2015-04-10T10:07:10.880+0200",
         "update-timestamp": "2015-04-10T10:07:10.880+0200",
         "parent-artifact-id": "65c87ea2-fb64-4bda-9206-
c049fc74ac6a",
         "child-artifact-id": "f16b7494-d36f-481d-bf70-
65458b0a1941",
         "relationship-type": "IMPLEMENTS",
         "@uri": "/nfvd/template/relationship/69",
         "@id": "69"
      },
...
   ]
}
```


Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	500 Internal server error: An unexpected error occurred processing the request

3.3 Get trees ids

3.3.1 XML

Description	Get template trees ids	
HTTP method	GET	
Resource	/nfvd/template/tree	
Query Parameters	name	Mandatory if type is not send
	type	Mandatory if name is not send
Relevant Headers	Accept: application/xml	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/tree?name=Template1&type=VNF HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 150 Date: Thu, 07 May 2015 14:38:39 GMT <uuids xmlns="http://www.hp.com/nfvd"> <uuid>6bdfadd6-bfeb-4464-a685-637f0f596e71</uuid> </uuids>	
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	
	500 Internal server error: An unexpected error occurred processing the request	

3.3.2 JSON

Description	Get template trees ids	
HTTP method	GET	
Resource	/nfvd/template/tree	
Query Parameters	name	Mandatory if type is not send
	type	Mandatory if name is not send
Relevant Headers	Accept: application/json	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/tree?name=Template1&type=VNF HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	<pre>HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Thu, 07 May 2015 14:38:52 GMT
	
	{"uuids": ["6bdfadd6-bfeb-4464-a685-637f0f596e71"]}</pre>

Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	500 Internal server error: An unexpected error occurred processing the request

3.4 Get template by tree id

3.4.1 XML

Description	Get template (artifacts and relationships) by tree id
HTTP method	GET
Resource	/nfvd/template/tree/{id}
Query Parameters	No needed
Relevant Headers	Accept: application/xml
Request Body	No Needed
RAW request example	GET http://localhost:8080/nfvd/template/tree/6bdfadd6-bfeb-4464-a685-637f0f596e71 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	<template id="6bdfadd6-bfeb-4464-a685-637f0f596e71" uri="/nfvd/template/6bdfadd6-bfeb-4464-a685-637f0f596e71" xmlns="http://www.hp.com/nfvd"> <artifact-templates> <artifact-template id="8900a545-c2fc-4fe4-b71c-b5e7022lk892" uri="/nfvd/template/artifact/8900a545-c2fc-4fe4-b71c-b5e7022lk892"> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_MACHINE</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01- 14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4fe4-b71c-b5e7022lk892</id> <identifier>VIRTUAL_MACHINE_1</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update- timestamp> </artifact-template> ... </artifact-templates> <description>description 1</description> <id>6bdfadd6-bfeb-4464-a685-637f0f596e71</id> <language-code>en_EN</language-code> <name>Template1</name> <relationship-templates> <relationship-template id="1" uri="/nfvd/template/relationship/1"> <categories/> <child-artifact-id>8900a545-c2fc-4fe4-b71c- b5e7022lk892</child-artifact-id> <creation-timestamp>2015-04- 01T14:23:30.153+0200</creation-timestamp> <parent-artifact-id>8900a545-c2fc-4fe4-b71c- b5e7022lk890</parent-artifact-id>

	`<status>`
	`<enabled>true</enabled>`
	`<label>DISABLED</label>`
	`<visible-label>DISABLED</visible-label>`
	`</status>`
	`<relationship-type>INCLUDE</relationship-type>`
	`<update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp>`
	`</relationship-template>`
	`...`
	`</relationship-templates>`
	`<type>VNF</type>`
	`</template>`

Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	404 Not found: Tree id does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.4.2 JSON

Description	Get template (artifacts and relationships) by tree id
HTTP method	`GET`
Resource	`/nfvd/template/tree/{id}`
Query Parameters	No Needed
Relevant Headers	`Accept: application/json`
Request Body	No Needed

RAW request example	`GET http://localhost:8080/nfvd/template/tree/6bdfadd6-bfeb-4464-a685-637f0f596e716 HTTP/1.1`
	`Accept-Encoding: gzip,deflate`
	`Accept: application/json`
	`Host: localhost:8080`
	`Connection: Keep-Alive`
	`User-Agent: Apache-HttpClient/4.1.1 (java 1.5)`

RAW Success response example	`{`
	`"id": "6bdfadd6-bfeb-4464-a685-637f0f596e71",`
	`"name": "Template1",`
	`"type": "VNF",`
	`"description": "description 1",`
	`"language-code": "en EN",`
	`"artifact-templates": [`
	`{`
	`"id": "8900a545-c2fc-4fe4-b71c-b5e7022lk892",`
	`"identifier": "VIRTUAL_MACHINE_1",`
	`"physical": false,`
	`"categories": [`
	`...`
	`],`
	`"artifact-version": null,`
	`"artifact-definition": {`
	`"family": "VIRTUAL MACHINE",`
	`"category": "GENERIC",`
	`"group": null,`

```
            "type": null,
            "subtype": null,
            "version": null
         },
         "status":          {
            "enabled": true,
            "label": "ENABLED",
            "visible-label": "ENABLED"
         },
         "creation-timestamp": "2015-01-14T14:12:25.000+0100",
         "update-timestamp": "2015-01-14T14:12:35.000+0100",
         "@uri": "/nfvd/template/artifact/8900a545-c2fc-4fe4-b71c-
b5e7022lk892",
         "@id": "8900a545-c2fc-4fe4-b71c-b5e7022lk892"
      },
...
   ],
   "relationship-templates":    [
            {
         "categories": [],
         "status":          {
            "enabled": true,
            "label": "DISABLED",
            "visible-label": "DISABLED"
         },
         "creation-timestamp": "2015-04-01T14:23:30.153+0200",
         "update-timestamp": "2015-04-01T14:23:32.273+0200",
         "parent-artifact-id": "8900a545-c2fc-4fe4-b71c-
b5e7022lk890",
         "child-artifact-id": "8900a545-c2fc-4fe4-b71c-
b5e7022lk892",
         "relationship-type": "INCLUDE",
         "@uri": "/nfvd/template/relationship/1",
         "@id": "1"
      },
...
   ],
   "@uri": "/nfvd/template/6bdfadd6-bfeb-4464-a685-637f0f596e71",
   "@id": "6bdfadd6-bfeb-4464-a685-637f0f596e71"
}
```


Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	404 Not found: Tree id does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.5 Download tree

3.5.1 XML

Description	Download tree	
HTTP method	GET	
Resource	/nfvd/template/download	
Query Parameters	tree	Mandatory. Multiple.
Relevant Headers	Accept: application/xml	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/template/download?tree=6bdfadd6-bfeb-7776-a685-637f0f596e71 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Transfer-Encoding: chunked Date: Mon, 15 Jun 2015 11:01:43 GMT <templates xmlns="http://www.hp.com/nfvd"> <elements> <artifact-templates> <artifact-template id="8900a545-c2fc-4rz4-b71c-b5e7022lk89h" uri="/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-b5e7022lk89h"> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> […] </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rz4-b71c-b5e7022lk89h</id> <identifier>VNF_2</identifier> <physical>false</physical> <update-timestamp>2015-06-15T12:46:12.917+0200</update-timestamp> </artifact-template> <artifact-template id="8900a545-c2fc-4rz4-b71c-b5e7022lk892" uri="/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-b5e7022lk892"> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_MACHINE</family>	

```
            </artifact-definition>
            <status>
               <enabled>true</enabled>
               <label>ENABLED</label>
               <visible-label>ENABLED</visible-label>
            </status>
            <categories>
               […]
            </categories>
            <creation-timestamp>2015-01-
14T14:12:25.000+0100</creation-timestamp>
            <id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</id>
            <identifier>VIRTUAL_MACHINE_2</identifier>
            <physical>false</physical>
            <update-timestamp>2015-06-15T12:46:13.021+0200</update-
timestamp>
         </artifact-template>
         <artifact-template id="8900a545-c2fc-4rz4-b71c-
b5e7022lk890" uri="/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-
b5e7022lk890">
            <artifact-definition>
               <category>GENERIC</category>
               <family>VNF_COMPONENT</family>
            </artifact-definition>
            <status>
               <enabled>true</enabled>
               <label>ACTIVE</label>
               <visible-label>ACTIVE</visible-label>
            </status>
            <categories>
               <category>
                  […]
            </categories>
            <creation-timestamp>2015-01-
14T14:12:25.000+0100</creation-timestamp>
            <id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</id>
            <identifier>VNF_COMPONENT_2</identifier>
            <physical>false</physical>
            <update-timestamp>2015-06-15T12:46:12.784+0200</update-
timestamp>
         </artifact-template>
      </artifact-templates>
      <relationship-templates>
         <relationship-template id="178"
uri="/nfvd/template/relationship/178">
            <categories/>
            <child-artifact-id>8900a545-c2fc-4rz4-b71c-
b5e7022lk892</child-artifact-id>
            <creation-timestamp>2015-04-
01T14:23:30.153+0200</creation-timestamp>
            <parent-artifact-id>8900a545-c2fc-4rz4-b71c-
b5e7022lk890</parent-artifact-id>
            <status>
               <enabled>true</enabled>
               <label>DISABLED</label>
               <visible-label>DISABLED</visible-label>
            </status>
            <relationship-type>INCLUDE</relationship-type>
            <update-timestamp>2015-06-15T12:46:13.118+0200</update-
timestamp>
         </relationship-template>
      </relationship-templates>
   </elements>
```

```
   <template-trees>
      <templates id="6bdfadd6-bfeb-7776-a685-637f0f596e71"
uri="/nfvd/template/6bdfadd6-bfeb-7776-a685-637f0f596e71">
         <artifact-templates>
            <artifact-template id="8900a545-c2fc-4rz4-b71c-
b5e7022lk892" uri="/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-
b5e7022lk892">
               <id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</id>
            </artifact-template>
            <artifact-template id="8900a545-c2fc-4rz4-b71c-
b5e7022lk89h" uri="/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-
b5e7022lk89h">
               <id>8900a545-c2fc-4rz4-b71c-b5e7022lk89h</id>
            </artifact-template>
            <artifact-template id="8900a545-c2fc-4rz4-b71c-
b5e7022lk890" uri="/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-
b5e7022lk890">
               <id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</id>
            </artifact-template>
         </artifact-templates>
         <description>description 2</description>
         <id>6bdfadd6-bfeb-7776-a685-637f0f596e71</id>
         <language-code>en_EN</language-code>
         <name>Template2</name>
         <relationship-templates>
            <relationship-template id="178"
uri="/nfvd/template/relationship/178">
               <child-artifact-id>8900a545-c2fc-4rz4-b71c-
b5e7022lk892</child-artifact-id>
               <parent-artifact-id>8900a545-c2fc-4rz4-b71c-
b5e7022lk890</parent-artifact-id>
               <relationship-type>INCLUDE</relationship-type>
            </relationship-template>
         </relationship-templates>
         <type>Template2</type>
      </templates>
   </template-trees>
</templates>
```


Possible errors	400 Bad request: Request syntax error
	404 Not found:
	500 Internal server error: An unexpected error occurred processing the request

3.5.2 JSON

Description	Download tree	
HTTP method	GET	
Resource	/nfvd/template/download	
Query Parameters	tree	Mandatory. Multiple.
Relevant Headers	Accept: application/json	
Request Body	Not needed	

RAW request example	GET http://localhost:8080/nfvd/template/download?tree=6bdfadd6-bfeb-7776-a685-637f0f596e71 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 15 Jun 2015 11:06:35 GMT
	{
	"artifact-templates": [
	{
	"id": "8900a545-c2fc-4rz4-b71c-b5e7022lk89h",
	"identifier": "VNF_2",
	"physical": false,
	"categories": [],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-06-15T12:46:12.917+0200",
	"@uri": "/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-b5e7022lk89h",
	"@id": "8900a545-c2fc-4rz4-b71c-b5e7022lk89h"
	},
	{
	"id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
	"identifier": "VIRTUAL MACHINE 2",
	"physical": false,
	"categories": [],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VIRTUAL_MACHINE",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-06-15T12:46:13.021+0200",
	"@uri": "/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-b5e7022lk892",

```
         "@id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892"
      },
            {
         "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
         "identifier": "VNF_COMPONENT_2",
         "physical": false,
         "categories":          [],
         "artifact-version": null,
         "artifact-definition":          {
            "family": "VNF_COMPONENT",
            "category": "GENERIC",
            "group": null,
            "type": null,
            "subtype": null,
            "version": null
         },
         "status":          {
            "enabled": true,
            "label": "ACTIVE",
            "visible-label": "ACTIVE"
         },
         "creation-timestamp": "2015-01-14T14:12:25.000+0100",
         "update-timestamp": "2015-06-15T12:46:12.784+0200",
         "@uri": "/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-
b5e7022lk890",
         "@id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890"
      }
   ],
   "relationship-templates": [   {
      "categories": [],
      "status":       {
         "enabled": true,
         "label": "DISABLED",
         "visible-label": "DISABLED"
      },
      "creation-timestamp": "2015-04-01T14:23:30.153+0200",
      "update-timestamp": "2015-06-15T12:46:13.118+0200",
      "parent-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
      "child-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
      "relationship-type": "INCLUDE",
      "@uri": "/nfvd/template/relationship/178",
      "@id": "178"
   }],
   "template-trees": [   {
      "id": "6bdfadd6-bfeb-7776-a685-637f0f596e71",
      "name": "Template2",
      "type": "Template2",
      "description": "description 2",
      "language-code": "en_EN",
      "artifact-templates":       [
                  {
            "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
            "identifier": null,
            "artifact-version": null,
            "creation-timestamp": null,
            "update-timestamp": null,
            "@uri": "/nfvd/template/artifact/8900a545-c2fc-4rz4-
b71c-b5e7022lk892",
            "@id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892"
         },
                  {
            "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk89h",
            "identifier": null,
```

```
            "artifact-version": null,
            "creation-timestamp": null,
            "update-timestamp": null,
            "@uri": "/nfvd/template/artifact/8900a545-c2fc-4rz4-
b71c-b5e7022lk89h",
            "@id": "8900a545-c2fc-4rz4-b71c-b5e7022lk89h"
         },
                  {
            "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
            "identifier": null,
            "artifact-version": null,
            "creation-timestamp": null,
            "update-timestamp": null,
            "@uri": "/nfvd/template/artifact/8900a545-c2fc-4rz4-
b71c-b5e7022lk890",
            "@id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890"
         }
      ],
      "relationship-templates": [      {
         "creation-timestamp": null,
         "update-timestamp": null,
         "parent-artifact-id": "8900a545-c2fc-4rz4-b71c-
b5e7022lk890",
         "child-artifact-id": "8900a545-c2fc-4rz4-b71c-
b5e7022lk892",
         "relationship-type": "INCLUDE",
         "@uri": "/nfvd/template/relationship/178",
         "@id": "178"
      }],
      "@uri": "/nfvd/template/6bdfadd6-bfeb-7776-a685-
637f0f596e71",
      "@id": "6bdfadd6-bfeb-7776-a685-637f0f596e71"
   }]
}
```


Possible errors	400 Bad request: Request syntax error
	404 Not found:
	500 Internal server error: An unexpected error occurred processing the request

3.6 Create template

3.6.1 XML

Description	Create artifact and relationship set
HTTP method	POST
Resource	/nfvd/template
Query Parameters	No Needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<template xmlns="http://www.hp.com/nfvd"> <artifact-templates> <artifact-template> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_MACHINE</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rr4-b71c-b5e7022lk892</id> <identifier>VIRTUAL_MACHINE_3</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> <artifact-template> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rr4-b71c-b5e7022lk89h</id> <identifier>VNF_3</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> <artifact-template> <artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label>

```
      </status>
      <categories>
...
      </categories>
      <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
      <id>8900a545-c2fc-4rr4-b71c-b5e7022lk890</id>
      <identifier>VNF_COMPONENT_3</identifier>
      <physical>false</physical>
      <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
    </artifact-template>
  </artifact-templates>
  <description>description 1</description>
  <id>6bdfadd6-bfeb-4464-a685-637f0f596e71</id>
  <language-code>en_EN</language-code>
  <name>Template1</name>
  <relationship-templates>
    <relationship-template>
      <categories/>
      <child-artifact-id>8900a545-c2fc-4rr4-b71c-b5e7022lk892</child-artifact-id>
      <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp>
      <parent-artifact-id>8900a545-c2fc-4rr4-b71c-b5e7022lk890</parent-artifact-id>
      <status>
        <enabled>true</enabled>
        <label>DISABLED</label>
        <visible-label>DISABLED</visible-label>
      </status>
      <relationship-type>INCLUDE</relationship-type>
      <update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp>
    </relationship-template>
    <relationship-template>
      <categories/>
      <child-artifact-id>8900a545-c2fc-4rr4-b71c-b5e7022lk890</child-artifact-id>
      <creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp>
      <parent-artifact-id>8900a545-c2fc-4rr4-b71c-b5e7022lk89h</parent-artifact-id>
      <status>
        <enabled>true</enabled>
        <label>ENABLED</label>
        <visible-label>ENABLED</visible-label>
      </status>
      <relationship-type>INCLUDE</relationship-type>
      <update-timestamp>2015-04-01T14:29:35.665+0200</update-timestamp>
    </relationship-template>
  </relationship-templates>
  <type>VNF</type>
</template>
```


RAW request example

```
POST http://localhost:8080/nfvd/template HTTP/1.1
Accept-Encoding: gzip,deflate
Content-Type: application/xml
Accept: application/xml
Content-Length: 19386
Host: localhost:8080
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

<template  xmlns="http://www.hp.com/nfvd">
…….
(see request body)
……..
</template>
```

RAW Success response example	

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Content-Type: application/xml
Transfer-Encoding: chunked
Date: Thu, 07 May 2015 15:14:26 GMT

<template id="null" uri="/nfvd/template/null"
xmlns="http://www.hp.com/nfvd">
   <artifact-templates>
      <artifact-template>
         <artifact-definition>
            <category>GENERIC</category>
            <family>VIRTUAL MACHINE</family>
         </artifact-definition>
         <status>
            <enabled>true</enabled>
            <label>ENABLED</label>
            <visible-label>ENABLED</visible-label>
         </status>
         <categories>
...
         </categories>
         <creation-timestamp>2015-01-
14T14:12:25.000+0100</creation-timestamp>
         <id>8900a545-c2fc-4rr4-b71c-b5e7022lk892</id>
         <identifier>VIRTUAL_MACHINE_3</identifier>
         <physical>false</physical>
         <update-timestamp>2015-01-14T14:12:35.000+0100</update-
timestamp>
      </artifact-template>
      <artifact-template id="8900a545-c2fc-4rr4-b71c-b5e7022lk890"
uri="/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk890">
         <artifact-definition>
            <category>GENERIC</category>
            <family>VNF_COMPONENT</family>
         </artifact-definition>
         <status>
            <enabled>true</enabled>
            <label>ACTIVE</label>
            <visible-label>ACTIVE</visible-label>
         </status>
         <categories>
...
         </categories>
         <creation-timestamp>2015-01-
14T14:12:25.000+0100</creation-timestamp>
         <id>8900a545-c2fc-4rr4-b71c-b5e7022lk890</id>
         <identifier>VNF_COMPONENT_3</identifier>
         <physical>false</physical>
         <update-timestamp>2015-01-14T14:12:35.000+0100</update-
timestamp>
      </artifact-template>
      <artifact-template >
         <artifact-definition>
            <category>GENERIC</category>
            <family>VNF</family>
         </artifact-definition>
         <status>
            <enabled>true</enabled>
            <label>ACTIVE</label>
            <visible-label>ACTIVE</visible-label>
         </status>
         <categories>
```

```
...
         </categories>
         <creation-timestamp>2015-01-
14T14:12:25.000+0100</creation-timestamp>
         <id>8900a545-c2fc-4rr4-b71c-b5e7022lk89h</id>
         <identifier>VNF 3</identifier>
         <physical>false</physical>
         <update-timestamp>2015-01-14T14:12:35.000+0100</update-
timestamp>
      </artifact-template>
   </artifact-templates>
   <relationship-templates>
      <relationship-template >
         <categories/>
         <child-artifact-id>8900a545-c2fc-4rr4-b71c-
b5e7022lk890</child-artifact-id>
         <creation-timestamp>2015-04-
01T14:29:32.318+0200</creation-timestamp>
         <parent-artifact-id>8900a545-c2fc-4rr4-b71c-
b5e7022lk89h</parent-artifact-id>
         <status>
            <enabled>true</enabled>
            <label>ENABLED</label>
            <visible-label>ENABLED</visible-label>
         </status>
         <relationship-type>INCLUDE</relationship-type>
         <update-timestamp>2015-04-01T14:29:35.665+0200</update-
timestamp>
      </relationship-template>
      <relationship-template >
         <categories/>
         <child-artifact-id>8900a545-c2fc-4rr4-b71c-
b5e7022lk892</child-artifact-id>
         <creation-timestamp>2015-04-
01T14:23:30.153+0200</creation-timestamp>
         <parent-artifact-id>8900a545-c2fc-4rr4-b71c-
b5e7022lk890</parent-artifact-id>
         <status>
            <enabled>true</enabled>
            <label>DISABLED</label>
            <visible-label>DISABLED</visible-label>
         </status>
         <relationship-type>INCLUDE</relationship-type>
         <update-timestamp>2015-04-01T14:23:32.273+0200</update-
timestamp>
      </relationship-template>
   </relationship-templates>
</template>
```


Possible errors	400 Bad request: Request syntax error
	409 Conflict: Artifact or Relationship already exists
	500 Internal server error: An unexpected error occurred processing the request

3.6.2 JSON

Description	Create artifact and relationship set
HTTP method	POST
Resource	/nfvd/template
Query Parameters	No Needed
Relevant Headers	Content-type: application/json Accept: application/json

Request Body	{
	"id": null,
	"name": null,
	"type": null,
	"description": null,
	"language-code": null,
	"artifact-templates": [
	{
	"id": "8900a545-c2fc-4zz4-b71c-b5e7022lk89h",
	"identifier": "VNF_6",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100"
	},
	{
	"id": "8900a545-c2fc-4zz4-b71c-b5e7022lk890",
	"identifier": "VNF_COMPONENT_6",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF COMPONENT",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,

```
            "label": "ACTIVE",
            "visible-label": "ACTIVE"
         },
         "creation-timestamp": "2015-01-14T14:12:25.000+0100",
         "update-timestamp": "2015-01-14T14:12:35.000+0100"
      },
            {
         "id": "8900a545-c2fc-4zz4-b71c-b5e7022lk892",
         "identifier": "VIRTUAL MACHINE 6",
         "physical": false,
         "categories":          [
 ...
         ],
         "artifact-version": null,
         "artifact-definition":          {
            "family": "VIRTUAL_MACHINE",
            "category": "GENERIC",
            "group": null,
            "type": null,
            "subtype": null,
            "version": null
         },
         "status":          {
            "enabled": true,
            "label": "ENABLED",
            "visible-label": "ENABLED"
         },
         "creation-timestamp": "2015-01-14T14:12:25.000+0100",
         "update-timestamp": "2015-01-14T14:12:35.000+0100"
      }
   ],
   "relationship-templates":    [
            {
         "categories": [],
         "status":          {
            "enabled": true,
            "label": "ENABLED",
            "visible-label": "ENABLED"
         },
         "creation-timestamp": "2015-04-01T14:29:32.318+0200",
         "update-timestamp": "2015-04-01T14:29:35.665+0200",
         "parent-artifact-id": "8900a545-c2fc-4zz4-b71c-
b5e7022lk89h",
         "child-artifact-id": "8900a545-c2fc-4zz4-b71c-
b5e7022lk890",
         "relationship-type": "INCLUDE"
      },
            {
         "categories": [],
         "status":          {
            "enabled": true,
            "label": "DISABLED",
            "visible-label": "DISABLED"
         },
         "creation-timestamp": "2015-04-01T14:23:30.153+0200",
         "update-timestamp": "2015-04-01T14:23:32.273+0200",
         "parent-artifact-id": "8900a545-c2fc-4zz4-b71c-
b5e7022lk890",
         "child-artifact-id": "8900a545-c2fc-4zz4-b71c-
b5e7022lk892",
         "relationship-type": "INCLUDE"
      }
   ]
```

	`}`
RAW request example	POST http://localhost:8080/nfvd/template HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json accept: application/json Content-Length: 20866 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) { "id": null, "name": null, "type": null, "description": null, "language-code": null, "artifact-templates": […… (see request body)

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Thu, 07 May 2015 15:47:46 GMT
	{
	"id": null,
	"name": null,
	"type": null,
	"description": null,
	"language-code": null,
	"artifact-templates": [
	{
	"id": "8900a545-c2fc-4zz4-b71c-b5e7022lk890",
	"identifier": "VNF COMPONENT 6",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF_COMPONENT",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"@uri": "/nfvd/template/artifact/8900a545-c2fc-4zz4-b71c-b5e7022lk890",
	"@id": "8900a545-c2fc-4zz4-b71c-b5e7022lk890"
	},
	{
	"id": "8900a545-c2fc-4zz4-b71c-b5e7022lk892",

```
         "identifier": "VIRTUAL_MACHINE_6",
         "physical": false,
         "categories":          [
...
         ],
         "artifact-version": null,
         "artifact-definition":          {
            "family": "VIRTUAL_MACHINE",
            "category": "GENERIC",
            "group": null,
            "type": null,
            "subtype": null,
            "version": null
         },
         "status":          {
            "enabled": true,
            "label": "ENABLED",
            "visible-label": "ENABLED"
         },
         "creation-timestamp": "2015-01-14T14:12:25.000+0100",
         "update-timestamp": "2015-01-14T14:12:35.000+0100",
         "@uri": "/nfvd/template/artifact/8900a545-c2fc-4zz4-b71c-
b5e7022lk892",
         "@id": "8900a545-c2fc-4zz4-b71c-b5e7022lk892"
      },
            {
         "id": "8900a545-c2fc-4zz4-b71c-b5e7022lk89h",
         "identifier": "VNF_6",
         "physical": false,
         "categories":          [
...
         ],
         "artifact-version": null,
         "artifact-definition":          {
            "family": "VNF",
            "category": "GENERIC",
            "group": null,
            "type": null,
            "subtype": null,
            "version": null
         },
         "status":          {
            "enabled": true,
            "label": "ACTIVE",
            "visible-label": "ACTIVE"
         },
         "creation-timestamp": "2015-01-14T14:12:25.000+0100",
         "update-timestamp": "2015-01-14T14:12:35.000+0100",
         "@uri": "/nfvd/template/artifact/8900a545-c2fc-4zz4-b71c-
b5e7022lk89h",
         "@id": "8900a545-c2fc-4zz4-b71c-b5e7022lk89h"
      }
   ],
   "relationship-templates":    [
            {
         "categories": [],
         "status":          {
            "enabled": true,
            "label": "DISABLED",
            "visible-label": "DISABLED"
         },
         "creation-timestamp": "2015-04-01T14:23:30.153+0200",
         "update-timestamp": "2015-04-01T14:23:32.273+0200",
```

	"parent-artifact-id": "8900a545-c2fc-4zz4-b71c-b5e7022lk890",
	"child-artifact-id": "8900a545-c2fc-4zz4-b71c-b5e7022lk892",
	"relationship-type": "INCLUDE",
	"@uri": "/nfvd/template/relationship/180",
	"@id": "180"
	},
	{
	"categories": [],
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-04-01T14:29:32.318+0200",
	"update-timestamp": "2015-04-01T14:29:35.665+0200",
	"parent-artifact-id": "8900a545-c2fc-4zz4-b71c-b5e7022lk89h",
	"child-artifact-id": "8900a545-c2fc-4zz4-b71c-b5e7022lk890",
	"relationship-type": "INCLUDE",
	"@uri": "/nfvd/template/relationship/181",
	"@id": "181"
	}
	],
	"@uri": "/nfvd/template/null",
	"@id": "null"
	}

Possible errors	400 Bad request: Request syntax error
	409 Conflict: Artifact or Relationship already exists
	500 Internal server error: An unexpected error occurred processing the request

3.7 Create template tree

3.7.1 XML

Description	Create a new template tree
HTTP method	POST
Resource	/nfvd/template/tree
Query Parameters	No Needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	

```
<template xmlns="http://www.hp.com/nfvd">
   <artifact-templates>
      <artifact-template>
         <artifact-definition>
            <category>GENERIC</category>
            <family>VIRTUAL MACHINE</family>
         </artifact-definition>
         <status>
            <enabled>true</enabled>
            <label>ENABLED</label>
            <visible-label>ENABLED</visible-label>
         </status>
         <categories>
...
         </categories>
         <creation-timestamp>2015-01-
14T14:12:25.000+0100</creation-timestamp>
         <id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</id>
         <identifier>VIRTUAL_MACHINE_2</identifier>
         <physical>false</physical>
         <update-timestamp>2015-01-14T14:12:35.000+0100</update-
timestamp>
      </artifact-template>
...
   </artifact-templates>
   <description>description 1</description>
   <id>6bdfadd6-bfeb-4444-a685-637f0f596e71</id>
   <language-code>en_EN</language-code>
   <name>Template1</name>
   <relationship-templates>
      <relationship-template>
         <categories/>
         <child-artifact-id>8900a545-c2fc-4rz4-b71c-
b5e7022lk892</child-artifact-id>
         <creation-timestamp>2015-04-
01T14:23:30.153+0200</creation-timestamp>
         <parent-artifact-id>8900a545-c2fc-4rz4-b71c-
b5e7022lk890</parent-artifact-id>
         <status>
            <enabled>true</enabled>
            <label>DISABLED</label>
            <visible-label>DISABLED</visible-label>
         </status>
         <relationship-type>INCLUDE</relationship-type>
         <update-timestamp>2015-04-01T14:23:32.273+0200</update-
timestamp>
      </relationship-template>
```

	``` ... </relationship-templates> <type>VNF</type> </template> ```
RAW request example	``` POST http://localhost:8080/nfvd/template/tree HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 18873 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <template xmlns="http://www.hp.com/nfvd"> …… (see request body) …….. </template> ```
RAW Success response example	``` HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Transfer-Encoding: chunked Date: Thu, 07 May 2015 15:14:26 GMT <template id="6bdfadd6-bfeb-4444-a685-637f0f596e71" uri="/nfvd/template/6bdfadd6-bfeb-4444-a685-637f0f596e71" xmlns="http://www.hp.com/nfvd"> <artifact-templates> <artifact-template > <artifact-definition> <category>GENERIC</category> <family>VNF COMPONENT</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01- 14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</id> <identifier>VNF_COMPONENT_2</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update- timestamp> </artifact-template> ... </artifact-templates> <description>description 1</description> <id>6bdfadd6-bfeb-4444-a685-637f0f596e71</id> <language-code>en_EN</language-code> <name>Template1</name> <relationship-templates> <relationship-template > <categories/> <child-artifact-id>8900a545-c2fc-4rz4-b71c- b5e7022lk892</child-artifact-id> <creation-timestamp>2015-04- ```

	01T14:23:30.153+0200</creation-timestamp> <parent-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</parent-artifact-id> <status> <enabled>true</enabled> <label>DISABLED</label> <visible-label>DISABLED</visible-label> </status> <relationship-type>INCLUDE</relationship-type> <update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp> </relationship-template> ... </relationship-templates> <type>VNF</type> </template>
Possible errors	400 Bad request: Request syntax error
	409 Conflict: Template tree already exists
	500 Internal server error: An unexpected error occurred processing the request

3.7.2 JSON

Description	Create a new template tree
HTTP method	POST
Resource	/nfvd/template/tree
Query Parameters	No Needed
Relevant Headers	Content-type: application/json
	Accept: application/json

Request Body	{
	  "id": "6bdfadd6-bfeb-6666-a685-637f0f596e71",
	  "name": "Template2",
	  "type": "VNF",
	  "description": "description 2",
	  "language-code": "en EN",
	  "artifact-templates": [
	  {
	  "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
	  "identifier": "VNF_COMPONENT_2",
	  "physical": false,
	  "categories": [
	...
	  ],
	  "artifact-version": null,
	  "artifact-definition": {
	  "family": "VNF COMPONENT",
	  "category": "GENERIC",
	  "group": null,
	  "type": null,
	  "subtype": null,
	  "version": null
	  },
	  "status": {

	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100"
	},
	...
	],
	"relationship-templates": [
	{
	"categories": [],
	"status": {
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "DISABLED"
	},
	"creation-timestamp": "2015-04-01T14:23:30.153+0200",
	"update-timestamp": "2015-04-01T14:23:32.273+0200",
	"parent-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
	"child-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
	"relationship-type": "INCLUDE",
	"@uri": "/nfvd/template/relationship/178",
	"@id": "178"
	}
	...
	]
	}

RAW request example	POST http://localhost:8080/nfvd/template/tree HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/xml Content-Length: 21483 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) { "id": "6bdfadd6-bfeb-6666-a685-637f0f596e71", "name": "Template2", "type": "VNF", "description": "description 2", "language-code": "en_EN", "artifact-templates": [..... (see request body)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Transfer-Encoding: chunked Date: Thu, 07 May 2015 15:21:35 GMT { "id": "6bdfadd6-bfeb-6666-a685-637f0f596e71", "name": "Template2", "type": "VNF", "description": "description 2", "language-code": "en_EN", "artifact-templates": [{ "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",

```
         "identifier": "VNF_COMPONENT_2",
         "physical": false,
         "categories":          [
...
         ],
         "artifact-version": null,
         "artifact-definition":          {
            "family": "VNF_COMPONENT",
            "category": "GENERIC",
            "group": null,
            "type": null,
            "subtype": null,
            "version": null
         },
         "status":          {
            "enabled": true,
            "label": "ACTIVE",
            "visible-label": "ACTIVE"
         },
         "creation-timestamp": "2015-01-14T14:12:25.000+0100",
         "update-timestamp": "2015-01-14T14:12:35.000+0100",
         "@uri": "/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-
b5e7022lk890",
         "@id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890"
      },
...
   ],
   "relationship-templates":    [
            {
         "categories": [],
         "status":          {
            "enabled": true,
            "label": "DISABLED",
            "visible-label": "DISABLED"
         },
         "creation-timestamp": "2015-04-01T14:23:30.153+0200",
         "update-timestamp": "2015-04-01T14:23:32.273+0200",
         "parent-artifact-id": "8900a545-c2fc-4rz4-b71c-
b5e7022lk890",
         "child-artifact-id": "8900a545-c2fc-4rz4-b71c-
b5e7022lk892",
         "relationship-type": "INCLUDE",
         "@uri": "/nfvd/template/relationship/178",
         "@id": "178"
      }
...
   ]
}
```


Possible errors	400 Bad request: Request syntax error
	409 Conflict: Template tree already exists
	500 Internal server error: An unexpected error occurred processing the request

3.8 Create tree UUID

3.8.1 XML

Description	Create a new template tree UUID	
HTTP method	POST	
Resource	/nfvd/template/tree/uuid	
Query Parameters	name	Mandatory
	description	Optional
	type	Optional
Relevant Headers	Content-type: application/xml	
	Accept: application/xml	
Request Body	No Needed	
RAW request example	POST http://localhost:8080/nfvd/template/tree/uuid?name=Doc&type=NFV&description=Doc%20test HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 365 Date: Thu, 07 May 2015 15:38:27 GMT <template id="a027d1d7-52ec-4a2e-8b0f-09b2da6a784a" uri="/nfvd/template/a027d1d7-52ec-4a2e-8b0f-09b2da6a784a" xmlns="http://www.hp.com/nfvd"> <artifact-templates/> <description>Doc test</description> <id>a027d1d7-52ec-4a2e-8b0f-09b2da6a784a</id> <name>Doc</name> <relationship-templates/> <type>NFV</type> </template>	
Possible errors	400 Bad request: Request syntax error	
	500 Internal server error: An unexpected error occurred processing the request	

3.8.2 JSON

Description	Create a new template tree UUID	
HTTP method	POST	
Resource	/nfvd/template/tree/uuid	
Query Parameters	name	Mandatory
	description	Optional

	type	Optional
Relevant Headers	Content-type: application/json	
	Accept: application/json	
Request Body	No Needed	
RAW request example	POST http://localhost:8080/nfvd/template/tree/uuid?name=Doc&type=NFV&description=Doc%20test HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Thu, 07 May 2015 15:40:00 GMT
	{
	"id": "28765dc9-4f7e-48c8-a850-cd3f07e5c685",
	"name": "Doc",
	"type": "NFV",
	"description": "Doc test",
	"language-code": null,
	"artifact-templates": [],
	"relationship-templates": [],
	"@uri": "/nfvd/template/28765dc9-4f7e-48c8-a850-cd3f07e5c685",
	"@id": "28765dc9-4f7e-48c8-a850-cd3f07e5c685"
	}	

Possible errors	400 Bad request: Request syntax error	
	500 Internal server error: An unexpected error occurred processing the request	

3.9 Upload tree

Upload information about a tree. There are two main elements:

- Elements: set of artifact and relationships you want to upload (will overwrite those elements (A/R) that already exist in the server or they will be created in case they don't exist)
- Instance/template-trees: tree structure, that is, a set of artifacts ids and relationships ids that belongs to the defined tree. If the tree already exists, the final tree will be the one sent in the request (so it may remove or add new elements to an existing tree)

3.9.1 XML

Description	Uploads tree definitions Elements (Artifacts and Relationships) and Trees
HTTP method	POST
Resource	/nfvd/template/upload
Query Parameters	Not needed.
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<templates xmlns="http://www.hp.com/nfvd"> <elements> <artifact-templates> <artifact-template> <artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> <category> <attributes> <attribute> <label>Result_code</label>

```
            <mandatory>false</mandatory>
            <order>2</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Operation</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Result_description</label>
            <mandatory>false</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>LAST_OPERATION</label>
        <order>3</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>Name</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Descripton</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>GENERAL</label>
        <order>1</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>Operational_Status</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>additionalText</label>
            <mandatory>false</mandatory>
            <order>6</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Source</label>
            <mandatory>true</mandatory>
            <order>3</order>
```

```
            <type>TEXT</type>
            <unit>TEXT</unit>
            <value>test12222</value>
          </attribute>
          <attribute>
            <label>LifeCycle_State</label>
            <mandatory>false</mandatory>
            <order>4</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Operational_Status_Date</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>Date</type>
            <unit>Date</unit>
          </attribute>
          <attribute>
            <label>LifeCycle_State_Date</label>
            <mandatory>false</mandatory>
            <order>5</order>
            <type>Date</type>
            <unit>Date</unit>
          </attribute>
        </attributes>
        <label>STATUS</label>
        <order>2</order>
      </category>
    </categories>
    <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
    <id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</id>
    <identifier>VNF_COMPONENT_2</identifier>
    <physical>false</physical>
    <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
  </artifact-template>
  <artifact-template>
    <artifact-definition>
      <category>GENERIC</category>
      <family>VIRTUAL_MACHINE</family>
    </artifact-definition>
    <status>
      <enabled>true</enabled>
      <label>ENABLED</label>
      <visible-label>ENABLED</visible-label>
    </status>
    <categories>
      […]
    </categories>
    <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
    <id>8900a545-c2fc-4rz4-b71c-b5e7022lk89h</id>
    <identifier>VNF_2</identifier>
    <physical>false</physical>
    <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
  </artifact-template>
</artifact-templates>
<relationship-templates>
  <relationship-template>
    <categories/>
    <child-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</child-artifact-id>
    <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp>
    <parent-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</parent-artifact-id>
    <status>
```

```
            <enabled>true</enabled>
            <label>DISABLED</label>
            <visible-label>DISABLED</visible-label>
          </status>
          <relationship-type>INCLUDE</relationship-type>
          <update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp>
        </relationship-template>
      </relationship-templates>
    </elements>
    <template-trees>
      <templates>
        <artifact-templates>
          <artifact-template>
            <id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</id>
          </artifact-template>
          <artifact-template>
            <id>8900a545-c2fc-4rz4-b71c-b5e7022lk89h</id>
          </artifact-template>
          <artifact-template>
            <id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</id>
          </artifact-template>
        </artifact-templates>
        <description>description 2</description>
        <id>6bdfadd6-bfeb-7776-a685-637f0f596e71</id>
        <language-code>en_EN</language-code>
        <name>Template2</name>
        <relationship-templates>
          <relationship-template>
            <child-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</child-artifact-id>
            <parent-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</parent-artifact-id>
            <relationship-type>INCLUDE</relationship-type>
          </relationship-template>
        </relationship-templates>
        <type>Template2</type>
      </templates>
    </template-trees>
</templates>
```


RAW request example

```
POST http://localhost:8080/nfvd/template/upload HTTP/1.1
Accept-Encoding: gzip,deflate
Content-Type: application/xml
Accept: application/xml
Content-Length: 20645
Host: localhost:8080
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

<templates xmlns="http://www.hp.com/nfvd">

SEE REQUEST BODY
```

RAW Success response example


```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Content-Type: application/xml
Content-Length: 2023
Date: Tue, 15 Jun 2015 07:47:32 GMT

<templates xmlns="http://www.hp.com/nfvd">
  <elements>
    <artifact-templates>
      <artifact-template id="8900a545-c2fc-4rz4-b71c-b5e7022lk890" uri="/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-b5e7022lk890">
        <artifact-definition>
          <category>GENERIC</category>
```

```
            <family>VNF_COMPONENT</family>
          </artifact-definition>
          <status>
            <enabled>true</enabled>
            <label>ACTIVE</label>
            <visible-label>ACTIVE</visible-label>
          </status>
          <categories>
            […]
          </categories>
          <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
          <id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</id>
          <identifier>VIRTUAL_MACHINE_2</identifier>
          <physical>false</physical>
          <update-timestamp>2015-06-15T11:45:57.694+0200</update-timestamp>
        </artifact-template>
        <artifact-template id="8900a545-c2fc-4rz4-b71c-b5e7022lk89h" uri="/nfvd/template/artifact/8900a545-
c2fc-4rz4-b71c-b5e7022lk89h">
          <artifact-definition>
            <category>GENERIC</category>
            <family>VNF</family>
          </artifact-definition>
          <status>
            <enabled>true</enabled>
            <label>ACTIVE</label>
            <visible-label>ACTIVE</visible-label>
          </status>
          <categories>
            […]
          </categories>
          <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
          <id>8900a545-c2fc-4rz4-b71c-b5e7022lk89h</id>
          <identifier>VNF_2</identifier>
          <physical>false</physical>
          <update-timestamp>2015-06-15T11:45:58.143+0200</update-timestamp>
        </artifact-template>
      </artifact-templates>
      <relationship-templates>
        <relationship-template id="178" uri="/nfvd/template/relationship/178">
          <categories/>
          <child-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</child-artifact-id>
          <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp>
          <parent-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</parent-artifact-id>
          <status>
            <enabled>true</enabled>
            <label>DISABLED</label>
            <visible-label>DISABLED</visible-label>
          </status>
          <relationship-type>INCLUDE</relationship-type>
          <update-timestamp>2015-06-15T11:45:58.672+0200</update-timestamp>
        </relationship-template>
      </relationship-templates>
    </elements>
    <template-trees>
      <templates id="6bdfadd6-bfeb-7776-a685-637f0f596e71" uri="/nfvd/template/6bdfadd6-bfeb-7776-a685-
637f0f596e71">
        <artifact-templates>
          <artifact-template id="8900a545-c2fc-4rz4-b71c-b5e7022lk892" uri="/nfvd/template/artifact/8900a545-
c2fc-4rz4-b71c-b5e7022lk892">
            <id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</id>
          </artifact-template>
          <artifact-template id="8900a545-c2fc-4rz4-b71c-b5e7022lk89h" uri="/nfvd/template/artifact/8900a545-
c2fc-4rz4-b71c-b5e7022lk89h">
```

	<id>8900a545-c2fc-4rz4-b71c-b5e7022lk89h</id> </artifact-template> <artifact-template id="8900a545-c2fc-4rz4-b71c-b5e7022lk890" uri="/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-b5e7022lk890"> <id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</id> </artifact-template> </artifact-templates> <description>description 2</description> <id>6bdfadd6-bfeb-7776-a685-637f0f596e71</id> <language-code>en_EN</language-code> <name>Template2</name> <relationship-templates> <relationship-template id="178" uri="/nfvd/template/relationship/178">> <child-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</child-artifact-id> <parent-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</parent-artifact-id> <relationship-type>INCLUDE</relationship-type> </relationship-template> </relationship-templates> <type>Template2</type> </templates> </template-trees> </templates>
Possible errors	400 Bad request: Request syntax error
	404 Not found:
	500 Internal server error: An unexpected error occurred processing the request

3.9.2 JSON

Description	Uploads tree definitions Elements (Artifacts and Relationships) and Trees
HTTP method	POST
Resource	/nfvd/template/upload
Query Parameters	Not needed
Relevant Headers	Content-type: application/json Accept: application/json
Request Body	{ "artifact-templates": [{ "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890", "identifier": "VNF_COMPONENT_2", "physical": false, "categories": [{ "order": 3, "attributes": [{ "order": 3, "mandatory": false, "value": null, "description": null, "type": "TEXT", "unit": "TEXT", "label": "Result_description"

```
        },
                {
        "order": 1,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Operation"
        },
                {
        "order": 2,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Result_code"
        }
      ],
      "label": "LAST_OPERATION"
    },
          {
      "order": 1,
      "attributes":          [
                {
        "order": 2,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Descripton"
        },
                {
        "order": 1,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Name"
        }
      ],
      "label": "GENERAL"
    },
          {
      "order": 2,
      "attributes":          [
                {
        "order": 2,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "Date",
        "unit": "Date",
        "label": "Operational_Status_Date"
        },
                {
        "order": 6,
        "mandatory": false,
        "value": null,
        "description": null,
```

```
            "type": "TEXT",
            "unit": "TEXT",
            "label": "additionalText"
          },
                {
            "order": 3,
            "mandatory": true,
            "value": "test12222",
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Source"
          },
                {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operational_Status"
          },
                {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "LifeCycle_State_Date"
          },
                {
            "order": 4,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "LifeCycle_State"
          }
        ],
        "label": "STATUS"
      }
    ],
    "artifact-version": null,
    "artifact-definition":      {
      "family": "VNF_COMPONENT",
      "category": "GENERIC",
      "group": null,
      "type": null,
      "subtype": null,
      "version": null
    },
    "status":      {
      "enabled": true,
      "label": "ACTIVE",
      "visible-label": "ACTIVE"
    },
    "creation-timestamp": "2015-01-14T14:12:25.000+0100",
    "update-timestamp": "2015-06-15T11:45:57.090+0200"
  },
      {
    "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk89h",
```

```
"identifier": "VNF_2",
"physical": false,
"categories":        [
            {
    "order": 4,
    "attributes":            [
                    {
        "order": 2,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Result_code"
      },
                    {
        "order": 3,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Result_description"
      },
                    {
        "order": 1,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Operation"
      }
    ],
    "label": "LAST_OPERATION"
  },
            {
    "order": 1,
    "attributes":            [
                    {
        "order": 2,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Type"
      },
                    {
        "order": 4,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Description"
      },
                    {
        "order": 3,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
```

```
            "unit": "TEXT",
            "label": "Vendor"
          },
                    {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "AssignmentPolicyID"
          },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Name"
          }
        ],
        "label": "GENERAL"
      },
            {
        "order": 2,
        "attributes":          [
                    {
            "order": 4,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "LifeCycle_State"
          },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operational_Status"
          },
                    {
            "order": 6,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "additionalText"
          },
                    {
            "order": 3,
            "mandatory": true,
            "value": "test",
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Source"
          },
```

```
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "Operational_Status_Date"
          },
                    {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "LifeCycle_State_Date"
          }
        ],
        "label": "STATUS"
      },
            {
        "order": 3,
        "attributes":          [
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "RelationshipTreeID"
          },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "ResourceTreeID"
          }
        ],
        "label": "ORIGIN_CREATION"
      }
    ],
    "artifact-version": null,
    "artifact-definition":      {
      "family": "VNF",
      "category": "GENERIC",
      "group": null,
      "type": null,
      "subtype": null,
      "version": null
    },
    "status":      {
      "enabled": true,
      "label": "ACTIVE",
      "visible-label": "ACTIVE"
    },
    "creation-timestamp": "2015-01-14T14:12:25.000+0100",
    "update-timestamp": "2015-06-15T11:45:58.143+0200"
  },
```

```
  {
"id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
"identifier": "VIRTUAL_MACHINE_2",
"physical": false,
"categories":        [
            {
    "order": 5,
    "attributes":            [
                    {
        "order": 2,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Result_code"
      },
                    {
        "order": 1,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Operation"
      },
                    {
        "order": 3,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Result_description"
      }
    ],
    "label": "LAST_OPERATION"
  },
            {
    "order": 1,
    "attributes":            [
                    {
        "order": 4,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "hostname"
      },
                    {
        "order": 3,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Description"
      },
                    {
        "order": 1,
        "mandatory": false,
        "value": null,
```

```
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Name"
            },
                {
                "order": 6,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Image"
            },
                {
                "order": 5,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Management_access"
            },
                {
                "order": 2,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Type"
            }
        ],
        "label": "GENERAL"
    },
            {
        "order": 4,
        "attributes":           [
                {
                "order": 2,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "NAME"
            },
                {
                "order": 3,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "HOSTNAME"
            },
                {
                "order": 1,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
```

```
            "label": "ID"
          }
        ],
        "label": "HYPERVISOR"
      },
        {
        "order": 3,
        "attributes":          [
                {
          "order": 2,
          "mandatory": false,
          "value": null,
          "description": null,
          "type": "TEXT",
          "unit": "TEXT",
          "label": "NAME"
        },
                {
          "order": 1,
          "mandatory": false,
          "value": null,
          "description": null,
          "type": "TEXT",
          "unit": "TEXT",
          "label": "ID"
        }
        ],
        "label": "VIM"
      },
        {
        "order": 2,
        "attributes":          [
                {
          "order": 4,
          "mandatory": false,
          "value": null,
          "description": null,
          "type": "TEXT",
          "unit": "TEXT",
          "label": "LifeCycle_State"
        },
                {
          "order": 5,
          "mandatory": false,
          "value": null,
          "description": null,
          "type": "Date",
          "unit": "Date",
          "label": "LifeCycle_State_Date"
        },
                {
          "order": 3,
          "mandatory": true,
          "value": "test",
          "description": null,
          "type": "TEXT",
          "unit": "TEXT",
          "label": "Source"
        },
                {
          "order": 1,
          "mandatory": false,
          "value": null,
```

```
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Operational_Status"
              },
                        {
                "order": 2,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "Date",
                "unit": "Date",
                "label": "Operational_Status_Date"
              },
                        {
                "order": 6,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "additionalText"
              }
            ],
            "label": "STATUS"
          }
        ],
        "artifact-version": null,
        "artifact-definition":          {
          "family": "VIRTUAL_MACHINE",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "status":          {
          "enabled": true,
          "label": "ENABLED",
          "visible-label": "ENABLED"
        },
        "creation-timestamp": "2015-01-14T14:12:25.000+0100",
        "update-timestamp": "2015-06-15T11:45:57.694+0200"
    }
  ],
  "relationship-templates": [    {
    "categories": [],
    "status":       {
      "enabled": true,
      "label": "DISABLED",
      "visible-label": "DISABLED"
    },
    "creation-timestamp": "2015-04-01T14:23:30.153+0200",
    "update-timestamp": "2015-06-15T11:45:58.672+0200",
    "parent-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
    "child-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
    "relationship-type": "INCLUDE",
    "@uri": "/nfvd/template/relationship/178",
    "@id": "178"
  }],
  "template-trees": [    {
    "id": "6bdfadd6-bfeb-7776-a685-637f0f596e71",
    "name": "Template2",
```

	"type": "Template2",
	"description": "description 2",
	"language-code": "en_EN",
	"artifact-templates": [
	{
	"id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
	"identifier": null,
	"artifact-version": null,
	"creation-timestamp": null,
	"update-timestamp": null
	},
	{
	"id": "8900a545-c2fc-4rz4-b71c-b5e7022lk89h",
	"identifier": null,
	"artifact-version": null,
	"creation-timestamp": null,
	"update-timestamp": null
	},
	{
	"id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
	"identifier": null,
	"artifact-version": null,
	"creation-timestamp": null,
	"update-timestamp": null
	}
	],
	"relationship-templates": [{
	"creation-timestamp": null,
	"update-timestamp": null,
	"parent-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
	"child-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
	"relationship-type": "INCLUDE"
	}]
	}]
	}

RAW request example	POST http://localhost:8080/nfvd/template/upload HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 21559 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) SEE REQUEST BODY

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 15 Jun 2015 10:46:26 GMT
	
	{
	"artifact-templates": [
	{
	"id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
	"identifier": "VNF_COMPONENT_2",
	"physical": false,
	"categories": [],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF_COMPONENT",
	"category": "GENERIC",

```
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "status":         {
          "enabled": true,
          "label": "ACTIVE",
          "visible-label": "ACTIVE"
        },
        "creation-timestamp": "2015-01-14T14:12:25.000+0100",
        "update-timestamp": "2015-06-15T11:45:57.090+0200"
      },
          {
        "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk89h",
        "identifier": "VNF_2",
        "physical": false,
        "categories":         [],
        "artifact-version": null,
        "artifact-definition":         {
          "family": "VNF",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "status":         {
          "enabled": true,
          "label": "ACTIVE",
          "visible-label": "ACTIVE"
        },
        "creation-timestamp": "2015-01-14T14:12:25.000+0100",
        "update-timestamp": "2015-06-15T11:45:58.143+0200"
      },
          {
        "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
        "identifier": "VIRTUAL_MACHINE_2",
        "physical": false,
        "categories":         [],
        "artifact-version": null,
        "artifact-definition":         {
          "family": "VIRTUAL_MACHINE",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "status":         {
          "enabled": true,
          "label": "ENABLED",
          "visible-label": "ENABLED"
        },
        "creation-timestamp": "2015-01-14T14:12:25.000+0100",
        "update-timestamp": "2015-06-15T11:45:57.694+0200"
      }
    ],
    "relationship-templates": [   {
      "categories": [],
      "status":      {
        "enabled": true,
        "label": "DISABLED",
```

```
        "visible-label": "DISABLED"
      },
      "creation-timestamp": "2015-04-01T14:23:30.153+0200",
      "update-timestamp": "2015-06-15T11:45:58.672+0200",
      "parent-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
      "child-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
      "relationship-type": "INCLUDE",
      "@uri": "/nfvd/template/relationship/178",
      "@id": "178"
    }],
    "template-trees": [   {
      "id": "6bdfadd6-bfeb-7776-a685-637f0f596e71",
      "name": "Template2",
      "type": "Template2",
      "description": "description 2",
      "language-code": "en_EN",
      "artifact-templates":      [
                {
          "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
          "identifier": null,
          "artifact-version": null,
          "creation-timestamp": null,
          "update-timestamp": null
        },
                {
          "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk89h",
          "identifier": null,
          "artifact-version": null,
          "creation-timestamp": null,
          "update-timestamp": null
        },
                {
          "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
          "identifier": null,
          "artifact-version": null,
          "creation-timestamp": null,
          "update-timestamp": null
        }
      ],
      "relationship-templates": [      {
        "creation-timestamp": null,
        "update-timestamp": null,
        "parent-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
        "child-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
        "relationship-type": "INCLUDE"
      }]
    }]
  }
```


Possible errors	400 Bad request: Request syntax error
	404 Not found:
	500 Internal server error: An unexpected error occurred processing the request

3.10 Upload Partial tree

Upload information about a tree. There are two main elements:

- Elements: set of artifact and relationships you want to upload (will overwrite only those elements (A/R) that are already in the server which update timestamp is older than the one coming in the request or they will be created in case they don't exists)
- Instance/template-trees: tree structure, that is, a set of artifacts ids and relationships ids that belongs to the defined tree. In this case, it will just add new A/R to the tree. It won't remove any element from the existing tree.

3.10.1 XML

Description	Uploads partial tree definitions Elements (Artifacts and Relationships) and Trees
HTTP method	`POST`
Resource	`/nfvd/template/upload/partial`
Query Parameters	Not needed.
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<templates xmlns="http://www.hp.com/nfvd"> <elements> <artifact-templates> <artifact-template> <artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> [...] </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</id> <identifier>VNF_COMPONENT_2</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> <artifact-template> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_MACHINE</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status>

```
        <categories>
          [...]
        </categories>
        <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
        <id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</id>
        <identifier>VIRTUAL_MACHINE_2</identifier>
        <physical>false</physical>
        <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
      </artifact-template>
      <artifact-template>
        <artifact-definition>
          <category>GENERIC</category>
          <family>VNF</family>
        </artifact-definition>
        <status>
          <enabled>true</enabled>
          <label>ACTIVE</label>
          <visible-label>ACTIVE</visible-label>
        </status>
        <categories>
          [...]
        </categories>
        <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
        <id>8900a545-c2fc-4rz4-b71c-b5e7022lk89h</id>
        <identifier>VNF_2</identifier>
        <physical>false</physical>
        <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
      </artifact-template>
    </artifact-templates>
    <relationship-templates>
      <relationship-template>
        <categories/>
        <child-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</child-artifact-id>
        <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp>
        <parent-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</parent-artifact-id>
        <status>
          <enabled>true</enabled>
          <label>DISABLED</label>
          <visible-label>DISABLED</visible-label>
        </status>
        <relationship-type>INCLUDE</relationship-type>
        <update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp>
      </relationship-template>
    </relationship-templates>
  </elements>
  <template-trees>
    <templates>
      <artifact-templates>
        <artifact-template>
          <id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</id>
        </artifact-template>
        <artifact-template>
          <id>8900a545-c2fc-4rz4-b71c-b5e7022lk89h</id>
        </artifact-template>
        <artifact-template>
          <id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</id>
        </artifact-template>
      </artifact-templates>
      <description>description 2</description>
      <id>6bdfadd6-bfeb-7776-a685-637f0f596e71</id>
      <language-code>en_EN</language-code>
      <name>Template2</name>
      <relationship-templates>
```

```
        <relationship-template>
          <child-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</child-artifact-id>
          <parent-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</parent-artifact-id>
          <relationship-type>INCLUDE</relationship-type>
        </relationship-template>
      </relationship-templates>
      <type>Template2</type>
    </templates>
  </template-trees>
</templates>
```


RAW request example

```
POST http://localhost:8080/nfvd/template/upload/partial HTTP/1.1
Accept-Encoding: gzip,deflate
Content-Type: application/xml
Accept: application/xml
Content-Length: 20645
Host: localhost:8080
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

<templates xmlns="http://www.hp.com/nfvd">

SEE REQUEST BODY
```

RAW Success response example

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Content-Type: application/xml
Content-Length: 2023
Date: Tue, 16 Jun 2015 07:47:32 GMT

<templates xmlns="http://www.hp.com/nfvd">
  <elements>
    <artifact-templates/>
    <relationship-templates>
      <relationship-template id="178" uri="/nfvd/template/relationship/178">
        <categories/>
        <child-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</child-artifact-id>
        <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp>
        <parent-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</parent-artifact-id>
        <status>
          <enabled>true</enabled>
          <label>DISABLED</label>
          <visible-label>DISABLED</visible-label>
        </status>
        <relationship-type>INCLUDE</relationship-type>
        <update-timestamp>2015-06-16T09:47:30.989+0200</update-timestamp>
      </relationship-template>
    </relationship-templates>
  </elements>
  <template-trees>
    <templates id="6bdfadd6-bfeb-7776-a685-637f0f596e71" uri="/nfvd/template/6bdfadd6-bfeb-7776-a685-
637f0f596e71">
      <artifact-templates>
        <artifact-template id="8900a545-c2fc-4rz4-b71c-b5e7022lk892" uri="/nfvd/template/artifact/8900a545-
c2fc-4rz4-b71c-b5e7022lk892">
          <id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</id>
        </artifact-template>
        <artifact-template id="8900a545-c2fc-4rz4-b71c-b5e7022lk89h" uri="/nfvd/template/artifact/8900a545-
c2fc-4rz4-b71c-b5e7022lk89h">
          <id>8900a545-c2fc-4rz4-b71c-b5e7022lk89h</id>
        </artifact-template>
        <artifact-template id="8900a545-c2fc-4rz4-b71c-b5e7022lk890" uri="/nfvd/template/artifact/8900a545-
c2fc-4rz4-b71c-b5e7022lk890">
          <id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</id>
```

	``` </artifact-template> </artifact-templates> <description>description 2</description> <id>6bdfadd6-bfeb-7776-a685-637f0f596e71</id> <language-code>en_EN</language-code> <name>Template2</name> <relationship-templates> <relationship-template id="178" uri="/nfvd/template/relationship/178"> <child-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</child-artifact-id> <parent-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</parent-artifact-id> <relationship-type>INCLUDE</relationship-type> </relationship-template> </relationship-templates> <type>Template2</type> </templates> </template-trees> </templates> ```
Possible errors	400 Bad request: Request syntax error
	404 Not found:
	500 Internal server error: An unexpected error occurred processing the request

3.10.2 JSON

Description	Uploads partial tree definitions Elements (Artifacts and Relationships) and Trees
HTTP method	POST
Resource	/nfvd/template/upload/partial
Query Parameters	Not needed
Relevant Headers	Content-type: application/json Accept: application/json

Request Body	```
	{
	"artifact-templates": [
	{
	"id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
	"identifier": "VNF_COMPONENT_2",
	"physical": false,
	"categories": [
	{
	"order": 3,
	"attributes": [
	{
	"order": 3,
	"mandatory": false,
	"value": null,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Result_description"
	},
	{
	"order": 1,
	"mandatory": false,
	"value": null,
	``

```
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operation"
          },
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_code"
          }
        ],
        "label": "LAST_OPERATION"
      },
            {
        "order": 1,
        "attributes":          [
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Descripton"
          },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Name"
          }
        ],
        "label": "GENERAL"
      },
            {
        "order": 2,
        "attributes":          [
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "Operational_Status_Date"
          },
                    {
            "order": 6,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "additionalText"
          },
                    {
```

```
                "order": 3,
                "mandatory": true,
                "value": "test12222",
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Source"
              },
                        {
                "order": 1,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Operational_Status"
              },
                        {
                "order": 5,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "Date",
                "unit": "Date",
                "label": "LifeCycle_State_Date"
              },
                        {
                "order": 4,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "LifeCycle_State"
              }
            ],
            "label": "STATUS"
          }
        ],
        "artifact-version": null,
        "artifact-definition":        {
          "family": "VNF_COMPONENT",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "status":        {
          "enabled": true,
          "label": "ACTIVE",
          "visible-label": "ACTIVE"
        },
        "creation-timestamp": "2015-01-14T14:12:25.000+0100",
        "update-timestamp": "2015-06-15T11:45:57.090+0200"
      },
          {
        "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk89h",
        "identifier": "VNF_2",
        "physical": false,
        "categories":        [
                  {
            "order": 4,
```

```
"attributes": [
{
"order": 2,
"mandatory": false,
"value": null,
"description": null,
"type": "TEXT",
"unit": "TEXT",
"label": "Result_code"
},
{
"order": 3,
"mandatory": false,
"value": null,
"description": null,
"type": "TEXT",
"unit": "TEXT",
"label": "Result_description"
},
{
"order": 1,
"mandatory": false,
"value": null,
"description": null,
"type": "TEXT",
"unit": "TEXT",
"label": "Operation"
}
],
"label": "LAST_OPERATION"
},
{
"order": 1,
"attributes": [
{
"order": 2,
"mandatory": false,
"value": null,
"description": null,
"type": "TEXT",
"unit": "TEXT",
"label": "Type"
},
{
"order": 4,
"mandatory": false,
"value": null,
"description": null,
"type": "TEXT",
"unit": "TEXT",
"label": "Description"
},
{
"order": 3,
"mandatory": false,
"value": null,
"description": null,
"type": "TEXT",
"unit": "TEXT",
"label": "Vendor"
},
{
"order": 5,
```

"mandatory": false,
"value": null,
"description": null,
"type": "TEXT",
"unit": "TEXT",
"label": "AssignmentPolicyID"
},
{
"order": 1,
"mandatory": false,
"value": null,
"description": null,
"type": "TEXT",
"unit": "TEXT",
"label": "Name"
}
],
"label": "GENERAL"
},
{
"order": 2,
"attributes": [
{
"order": 4,
"mandatory": false,
"value": null,
"description": null,
"type": "TEXT",
"unit": "TEXT",
"label": "LifeCycle_State"
},
{
"order": 1,
"mandatory": false,
"value": null,
"description": null,
"type": "TEXT",
"unit": "TEXT",
"label": "Operational_Status"
},
{
"order": 6,
"mandatory": false,
"value": null,
"description": null,
"type": "TEXT",
"unit": "TEXT",
"label": "additionalText"
},
{
"order": 3,
"mandatory": true,
"value": "test",
"description": null,
"type": "TEXT",
"unit": "TEXT",
"label": "Source"
},
{
"order": 2,
"mandatory": false,
"value": null,
"description": null,

```
                "type": "Date",
                "unit": "Date",
                "label": "Operational_Status_Date"
              },
                        {
                "order": 5,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "Date",
                "unit": "Date",
                "label": "LifeCycle_State_Date"
              }
            ],
            "label": "STATUS"
          },
                  {
            "order": 3,
            "attributes":              [
                        {
                "order": 1,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "RelationshipTreeID"
              },
                        {
                "order": 1,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "ResourceTreeID"
              }
            ],
            "label": "ORIGIN_CREATION"
          }
        ],
        "artifact-version": null,
        "artifact-definition":        {
          "family": "VNF",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "status":        {
          "enabled": true,
          "label": "ACTIVE",
          "visible-label": "ACTIVE"
        },
        "creation-timestamp": "2015-01-14T14:12:25.000+0100",
        "update-timestamp": "2015-06-15T11:45:58.143+0200"
      },
          {
        "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
        "identifier": "VIRTUAL_MACHINE_2",
        "physical": false,
        "categories":        [
```

```
        {
    "order": 5,
    "attributes":          [
                {
        "order": 2,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Result_code"
      },
                {
        "order": 1,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Operation"
      },
                {
        "order": 3,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Result_description"
      }
    ],
    "label": "LAST_OPERATION"
  },
        {
    "order": 1,
    "attributes":          [
                {
        "order": 4,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "hostname"
      },
                {
        "order": 3,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Description"
      },
                {
        "order": 1,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Name"
      },
```

```
                {
            "order": 6,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Image"
        },
                {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Management_access"
        },
                {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Type"
        }
    ],
    "label": "GENERAL"
},
        {
    "order": 4,
    "attributes":           [
                {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "NAME"
        },
                {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "HOSTNAME"
        },
                {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "ID"
        }
    ],
    "label": "HYPERVISOR"
},
```

```
            {
        "order": 3,
        "attributes":            [
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "NAME"
          },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "ID"
          }
        ],
        "label": "VIM"
      },
            {
        "order": 2,
        "attributes":            [
                    {
            "order": 4,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "LifeCycle_State"
          },
                    {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "LifeCycle_State_Date"
          },
                    {
            "order": 3,
            "mandatory": true,
            "value": "test",
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Source"
          },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operational_Status"
          },
```

```
                    {
                "order": 2,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "Date",
                "unit": "Date",
                "label": "Operational_Status_Date"
            },
                    {
                "order": 6,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "additionalText"
            }
        ],
        "label": "STATUS"
      }
    ],
    "artifact-version": null,
    "artifact-definition":      {
      "family": "VIRTUAL_MACHINE",
      "category": "GENERIC",
      "group": null,
      "type": null,
      "subtype": null,
      "version": null
    },
    "status":      {
      "enabled": true,
      "label": "ENABLED",
      "visible-label": "ENABLED"
    },
    "creation-timestamp": "2015-01-14T14:12:25.000+0100",
    "update-timestamp": "2015-06-15T11:45:57.694+0200"
  }
],
"relationship-templates": [   {
  "categories": [],
  "status":     {
    "enabled": true,
    "label": "DISABLED",
    "visible-label": "DISABLED"
  },
  "creation-timestamp": "2015-04-01T14:23:30.153+0200",
  "update-timestamp": "2015-06-15T11:45:58.672+0200",
  "parent-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
  "child-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
  "relationship-type": "INCLUDE",
  "@uri": "/nfvd/template/relationship/178",
  "@id": "178"
}],
"template-trees": [   {
  "id": "6bdfadd6-bfeb-7776-a685-637f0f596e71",
  "name": "Template2",
  "type": "Template2",
  "description": "description 2",
  "language-code": "en_EN",
  "artifact-templates":     [
            {
```

	"id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
	"identifier": null,
	"artifact-version": null,
	"creation-timestamp": null,
	"update-timestamp": null
	},
	{
	"id": "8900a545-c2fc-4rz4-b71c-b5e7022lk89h",
	"identifier": null,
	"artifact-version": null,
	"creation-timestamp": null,
	"update-timestamp": null
	},
	{
	"id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
	"identifier": null,
	"artifact-version": null,
	"creation-timestamp": null,
	"update-timestamp": null
	}
	],
	"relationship-templates": [{
	"creation-timestamp": null,
	"update-timestamp": null,
	"parent-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
	"child-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
	"relationship-type": "INCLUDE"
	}]
	}]
	}

RAW request example	POST http://localhost:8080/nfvd/template/upload/partial HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 21559 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) SEE REQUEST BODY

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Tue, 16 Jun 2015 07:51:17 GMT
	
	{
	"artifact-templates": [],
	"relationship-templates": [{
	"categories": [],
	"status": {
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "DISABLED"
	},
	"creation-timestamp": "2015-04-01T14:23:30.153+0200",
	"update-timestamp": "2015-06-16T09:51:16.253+0200",
	"relationship-type": "INCLUDE",
	"parent-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
	"child-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
	"@uri": "/nfvd/template/relationship/178",
	"@id": "178"

```
  }],
  "template-trees": [   {
    "id": "6bdfadd6-bfeb-7776-a685-637f0f596e71",
    "name": "Template2",
    "type": "Template2",
    "description": "description 2",
    "language-code": "en_EN",
    "artifact-templates":      [
              {
          "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
          "identifier": null,
          "artifact-version": null,
          "creation-timestamp": null,
          "update-timestamp": null,
          "@uri": "/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-b5e7022lk892",
          "@id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892"
        },
              {
          "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk89h",
          "identifier": null,
          "artifact-version": null,
          "creation-timestamp": null,
          "update-timestamp": null,
          "@uri": "/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-b5e7022lk89h",
          "@id": "8900a545-c2fc-4rz4-b71c-b5e7022lk89h"
        },
              {
          "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
          "identifier": null,
          "artifact-version": null,
          "creation-timestamp": null,
          "update-timestamp": null,
          "@uri": "/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-b5e7022lk890",
          "@id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890"
        }
      ],
    "relationship-templates": [      {
        "creation-timestamp": null,
        "update-timestamp": null,
        "relationship-type": "INCLUDE",
        "parent-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
        "child-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
        "@uri": "/nfvd/template/relationship/178",
        "@id": "178"
    }],
    "@uri": "/nfvd/template/6bdfadd6-bfeb-7776-a685-637f0f596e71",
    "@id": "6bdfadd6-bfeb-7776-a685-637f0f596e71"
  }]
}
```


Possible errors	400 Bad request: Request syntax error
	404 Not found:
	500 Internal server error: An unexpected error occurred processing the request

3.11 Update template

3.11.1 XML

Description	Update artifact and relationship set
HTTP method	PUT
Resource	/nfvd/template
Query Parameters	No Needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<template xmlns="http://www.hp.com/nfvd"> <artifact-templates> <artifact-template> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_MACHINE</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rr4-b71c-b5e7022lk892</id> <identifier>VIRTUAL_MACHINE_3</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> <artifact-template> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rr4-b71c-b5e7022lk89h</id> <identifier>VNF_3</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> <artifact-template> <artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label>

```
        <visible-label>ACTIVE</visible-label>
      </status>
      <categories>
...
      </categories>
      <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
      <id>8900a545-c2fc-4rr4-b71c-b5e7022lk890</id>
      <identifier>VNF_COMPONENT_3</identifier>
      <physical>false</physical>
      <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
    </artifact-template>
  </artifact-templates>
  <description>description 1</description>
  <id>6bdfadd6-bfeb-4464-a685-637f0f596e71</id>
  <language-code>en_EN</language-code>
  <name>Template1</name>
  <relationship-templates>
    <relationship-template>
      <categories/>
      <child-artifact-id>8900a545-c2fc-4rr4-b71c-b5e7022lk892</child-artifact-id>
      <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp>
      <parent-artifact-id>8900a545-c2fc-4rr4-b71c-b5e7022lk890</parent-artifact-id>
      <status>
        <enabled>true</enabled>
        <label>DISABLED</label>
        <visible-label>DISABLED</visible-label>
      </status>
      <relationship-type>INCLUDE</relationship-type>
      <update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp>
    </relationship-template>
    <relationship-template>
      <categories/>
      <child-artifact-id>8900a545-c2fc-4rr4-b71c-b5e7022lk890</child-artifact-id>
      <creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp>
      <parent-artifact-id>8900a545-c2fc-4rr4-b71c-b5e7022lk89h</parent-artifact-id>
      <status>
        <enabled>true</enabled>
        <label>ENABLED</label>
        <visible-label>ENABLED</visible-label>
      </status>
      <relationship-type>INCLUDE</relationship-type>
      <update-timestamp>2015-04-01T14:29:35.665+0200</update-timestamp>
    </relationship-template>
  </relationship-templates>
  <type>VNF</type>
</template>
```


RAW request example

```
PUT http://localhost:8080/nfvd/template HTTP/1.1
Accept-Encoding: gzip,deflate
Content-Type: application/xml
Accept: application/xml
Content-Length: 19386
Host: localhost:8080
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

<template  xmlns="http://www.hp.com/nfvd">
…….
(see request body)
……..
</template>
```

RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Transfer-Encoding: chunked Date: Thu, 07 May 2015 15:14:26 GMT <template id="null" uri="/nfvd/template/null" xmlns="http://www.hp.com/nfvd"> <artifact-templates> <artifact-template id="8900a545-c2fc-4rr4-b71c-b5e7022lk892" uri="/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk892"> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_MACHINE</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rr4-b71c-b5e7022lk892</id> <identifier>VIRTUAL_MACHINE_3</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> <artifact-template id="8900a545-c2fc-4rr4-b71c-b5e7022lk890" uri="/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk890"> <artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rr4-b71c-b5e7022lk890</id> <identifier>VNF_COMPONENT_3</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> <artifact-template id="8900a545-c2fc-4rr4-b71c-b5e7022lk89h" uri="/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h"> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>

	`<id>8900a545-c2fc-4rr4-b71c-b5e7022lk89h</id>`
	`<identifier>VNF_3</identifier>`
	`<physical>false</physical>`
	`<update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>`
	`</artifact-template>`
	`</artifact-templates>`
	`<relationship-templates>`
	`<relationship-template id="176" uri="/nfvd/template/relationship/176">`
	`<categories/>`
	`<child-artifact-id>8900a545-c2fc-4rr4-b71c-b5e7022lk890</child-artifact-id>`
	`<creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp>`
	`<parent-artifact-id>8900a545-c2fc-4rr4-b71c-b5e7022lk89h</parent-artifact-id>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>ENABLED</label>`
	`<visible-label>ENABLED</visible-label>`
	`</status>`
	`<relationship-type>INCLUDE</relationship-type>`
	`<update-timestamp>2015-04-01T14:29:35.665+0200</update-timestamp>`
	`</relationship-template>`
	`<relationship-template id="177" uri="/nfvd/template/relationship/177">`
	`<categories/>`
	`<child-artifact-id>8900a545-c2fc-4rr4-b71c-b5e7022lk892</child-artifact-id>`
	`<creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp>`
	`<parent-artifact-id>8900a545-c2fc-4rr4-b71c-b5e7022lk890</parent-artifact-id>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>DISABLED</label>`
	`<visible-label>DISABLED</visible-label>`
	`</status>`
	`<relationship-type>INCLUDE</relationship-type>`
	`<update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp>`
	`</relationship-template>`
	`</relationship-templates>`
	`</template>`

Possible errors	400 Bad request: Request syntax error
	404 Not found: Template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.11.2 JSON

Description	Update artifact and relationship set
HTTP method	PUT
Resource	/nfvd/template
Query Parameters	No Needed
Relevant Headers	Content-type: application/json
	Accept: application/json

Request Body	`{`
	`"id": null,`
	`"name": null,`
	`"type": null,`

```
  "description": null,
  "language-code": null,
  "artifact-templates":    [
          {
        "id": "8900a545-c2fc-4zz4-b71c-b5e7022lk89h",
        "identifier": "VNF_6",
        "physical": false,
        "categories":         [
...
        ],
        "artifact-version": null,
        "artifact-definition":         {
          "family": "VNF",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "status":         {
          "enabled": true,
          "label": "ACTIVE",
          "visible-label": "ACTIVE"
        },
        "creation-timestamp": "2015-01-14T14:12:25.000+0100",
        "update-timestamp": "2015-01-14T14:12:35.000+0100"
      },
          {
        "id": "8900a545-c2fc-4zz4-b71c-b5e7022lk890",
        "identifier": "VNF_COMPONENT_6",
        "physical": false,
        "categories":         [
...
        ],
        "artifact-version": null,
        "artifact-definition":         {
          "family": "VNF_COMPONENT",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "status":         {
          "enabled": true,
          "label": "ACTIVE",
          "visible-label": "ACTIVE"
        },
        "creation-timestamp": "2015-01-14T14:12:25.000+0100",
        "update-timestamp": "2015-01-14T14:12:35.000+0100"
      },
          {
        "id": "8900a545-c2fc-4zz4-b71c-b5e7022lk892",
        "identifier": "VIRTUAL_MACHINE_6",
        "physical": false,
        "categories":         [
...
        ],
        "artifact-version": null,
        "artifact-definition":         {
          "family": "VIRTUAL_MACHINE",
          "category": "GENERIC",
          "group": null,
```

```
          "type": null,
          "subtype": null,
          "version": null
        },
        "status":         {
          "enabled": true,
          "label": "ENABLED",
          "visible-label": "ENABLED"
        },
        "creation-timestamp": "2015-01-14T14:12:25.000+0100",
        "update-timestamp": "2015-01-14T14:12:35.000+0100"
      }
    ],
    "relationship-templates":    [
          {
        "categories": [],
        "status":         {
          "enabled": true,
          "label": "ENABLED",
          "visible-label": "ENABLED"
        },
        "creation-timestamp": "2015-04-01T14:29:32.318+0200",
        "update-timestamp": "2015-04-01T14:29:35.665+0200",
        "parent-artifact-id": "8900a545-c2fc-4zz4-b71c-b5e7022lk89h",
        "child-artifact-id": "8900a545-c2fc-4zz4-b71c-b5e7022lk890",
        "relationship-type": "INCLUDE"
      },
          {
        "categories": [],
        "status":         {
          "enabled": true,
          "label": "DISABLED",
          "visible-label": "DISABLED"
        },
        "creation-timestamp": "2015-04-01T14:23:30.153+0200",
        "update-timestamp": "2015-04-01T14:23:32.273+0200",
        "parent-artifact-id": "8900a545-c2fc-4zz4-b71c-b5e7022lk890",
        "child-artifact-id": "8900a545-c2fc-4zz4-b71c-b5e7022lk892",
        "relationship-type": "INCLUDE"
      }
    ]
}
```


RAW request example

```
PUT http://localhost:8080/nfvd/template HTTP/1.1
Accept-Encoding: gzip,deflate
Content-Type: application/json
accept: application/json
Content-Length: 20866
Host: localhost:8080
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

{
  "id": null,
  "name": null,
  "type": null,
  "description": null,
  "language-code": null,
  "artifact-templates":    [
……….
(see request body)
```

RAW Success response example	{
	"id": null,
	"name": null,
	"type": null,
	"description": null,
	"language-code": null,
	"artifact-templates": [
	{
	"id": "8900a545-c2fc-4zz4-b71c-b5e7022lk890",
	"identifier": "VNF_COMPONENT_6",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF_COMPONENT",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"@uri": "/nfvd/template/artifact/8900a545-c2fc-4zz4-b71c-b5e7022lk890",
	"@id": "8900a545-c2fc-4zz4-b71c-b5e7022lk890"
	},
	{
	"id": "8900a545-c2fc-4zz4-b71c-b5e7022lk892",
	"identifier": "VIRTUAL_MACHINE_6",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VIRTUAL_MACHINE",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"@uri": "/nfvd/template/artifact/8900a545-c2fc-4zz4-b71c-b5e7022lk892",
	"@id": "8900a545-c2fc-4zz4-b71c-b5e7022lk892"
	},
	{
	"id": "8900a545-c2fc-4zz4-b71c-b5e7022lk89h",
	"identifier": "VNF_6",
	"physical": false,

```
        "categories":         [
...
        ],
        "artifact-version": null,
        "artifact-definition":         {
          "family": "VNF",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "status":         {
          "enabled": true,
          "label": "ACTIVE",
          "visible-label": "ACTIVE"
        },
        "creation-timestamp": "2015-01-14T14:12:25.000+0100",
        "update-timestamp": "2015-01-14T14:12:35.000+0100",
        "@uri": "/nfvd/template/artifact/8900a545-c2fc-4zz4-b71c-b5e7022lk89h",
        "@id": "8900a545-c2fc-4zz4-b71c-b5e7022lk89h"
      }
    ],
    "relationship-templates":    [
          {
        "categories": [],
        "status":         {
          "enabled": true,
          "label": "DISABLED",
          "visible-label": "DISABLED"
        },
        "creation-timestamp": "2015-04-01T14:23:30.153+0200",
        "update-timestamp": "2015-04-01T14:23:32.273+0200",
        "parent-artifact-id": "8900a545-c2fc-4zz4-b71c-b5e7022lk890",
        "child-artifact-id": "8900a545-c2fc-4zz4-b71c-b5e7022lk892",
        "relationship-type": "INCLUDE",
        "@uri": "/nfvd/template/relationship/180",
        "@id": "180"
      },
          {
        "categories": [],
        "status":         {
          "enabled": true,
          "label": "ENABLED",
          "visible-label": "ENABLED"
        },
        "creation-timestamp": "2015-04-01T14:29:32.318+0200",
        "update-timestamp": "2015-04-01T14:29:35.665+0200",
        "parent-artifact-id": "8900a545-c2fc-4zz4-b71c-b5e7022lk89h",
        "child-artifact-id": "8900a545-c2fc-4zz4-b71c-b5e7022lk890",
        "relationship-type": "INCLUDE",
        "@uri": "/nfvd/template/relationship/181",
        "@id": "181"
      }
    ],
    "@uri": "/nfvd/template/null",
    "@id": "null"
}
```


Possible errors	400 Bad request: Request syntax error

	404 Not found: Template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.12 Update template tree

3.12.1 XML

Description	Updating template tree
HTTP method	PUT
Resource	/nfvd/template/tree/{id}
Query Parameters	No Needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<template xmlns="http://www.hp.com/nfvd"> <artifact-templates> <artifact-template id="8900a545-c2fc-4ad4-b71c-b5e7022lk890" uri="/nfvd/template/artifact/8900a545-c2fc-4ad4-b71c-b5e7022lk890"> <artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4ad4-b71c-b5e7022lk890</id> <identifier>VNF_COMPONENT_4</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> </artifact-templates> <description>description 1</description> <id>6bdfadd6-bfeb-5555-a685-637f0f596e71</id> <language-code>en_EN</language-code> <name>Template1</name> <relationship-templates> </relationship-templates> <type>VNF</type> </template>
RAW request example	PUT http://localhost:8080/nfvd/template/tree/6bdfadd6-bfeb-5555-a685-637f0f596e71 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 4434 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Transfer-Encoding: chunked Date: Thu, 07 May 2015 16:14:48 GMT <template id="6bdfadd6-bfeb-5555-a685-637f0f596e71" uri="/nfvd/template/6bdfadd6-bfeb-5555-a685-637f0f596e71" xmlns="http://www.hp.com/nfvd">>

```
  <artifact-templates>
    <artifact-template id="8900a545-c2fc-4ad4-b71c-b5e7022lk890" uri="/nfvd/template/artifact/8900a545-c2fc-4ad4-b71c-b5e7022lk890">
      <artifact-definition>
        <category>GENERIC</category>
        <family>VNF_COMPONENT</family>
      </artifact-definition>
      <status>
        <enabled>true</enabled>
        <label>ACTIVE</label>
        <visible-label>ACTIVE</visible-label>
      </status>
      <categories>
...
      </categories>
      <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
      <id>8900a545-c2fc-4ad4-b71c-b5e7022lk890</id>
      <identifier>VNF_COMPONENT_4</identifier>
      <physical>false</physical>
      <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
    </artifact-template>
...
  </artifact-templates>
  <description>description 1</description>
  <id>6bdfadd6-bfeb-5555-a685-637f0f596e71</id>
  <name>Template1</name>
  <relationship-templates>
    <relationship-template id="178" uri="/nfvd/template/relationship/178">
      <categories/>
      <child-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</child-artifact-id>
      <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp>
      <parent-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</parent-artifact-id>
      <status>
        <enabled>true</enabled>
        <label>DISABLED</label>
        <visible-label>DISABLED</visible-label>
      </status>
      <relationship-type>INCLUDE</relationship-type>
      <update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp>
    </relationship-template>
...
  </relationship-templates>
  <type>VNF</type>
</template>
```


Possible errors	400 Bad request: Request syntax error
	404 Not found: Template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.12.2 JSON

Description	Updating template tree
HTTP method	PUT
Resource	/nfvd/template/tree/{id}

Query Parameters	No Needed
Relevant Headers	Content-type: application/json Accept: application/json

Request Body	{
	"id": "6bdfadd6-bfeb-8888-a685-637f0f596e71",
	"name": "Template2",
	"type": "VNF",
	"description": "description 2",
	"language-code": "en_EN",
	"artifact-templates": [
	{
	"id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
	"identifier": "VNF_COMPONENT_2",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF_COMPONENT",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"@uri": "/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-b5e7022lk890",
	"@id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890"
	}
	
	],
	"relationship-templates": [],
	"@uri": "/nfvd/template/6bdfadd6-bfeb-8888-a685-637f0f596e71",
	"@id": "6bdfadd6-bfeb-8888-a685-637f0f596e71"
	}

RAW request example	PUT http://localhost:8080/nfvd/template/tree/6bdfadd6-bfeb-8888-a685-637f0f596e71 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 5372 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Thu, 07 May 2015 16:40:12 GMT { "id": "6bdfadd6-bfeb-8888-a685-637f0f596e71", "name": "Template2", "type": "VNF",

```
  "description": "description 2",
  "language-code": null,
  "artifact-templates":    [
          {
      "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
      "identifier": "VNF_COMPONENT_2",
      "physical": false,
      "categories":         [
...
      ],
      "artifact-version": null,
      "artifact-definition":         {
        "family": "VNF_COMPONENT",
        "category": "GENERIC",
        "group": null,
        "type": null,
        "subtype": null,
        "version": null
      },
      "status":         {
        "enabled": true,
        "label": "ACTIVE",
        "visible-label": "ACTIVE"
      },
      "creation-timestamp": "2015-01-14T14:12:25.000+0100",
      "update-timestamp": "2015-01-14T14:12:35.000+0100",
      "@uri": "/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-b5e7022lk890",
      "@id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890"
    },
          {
      "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
      "identifier": "VIRTUAL_MACHINE_2",
      "physical": false,
      "categories":         [
...
      ],
      "artifact-version": null,
      "artifact-definition":         {
        "family": "VIRTUAL_MACHINE",
        "category": "GENERIC",
        "group": null,
        "type": null,
        "subtype": null,
        "version": null
      },
      "status":         {
        "enabled": true,
        "label": "ENABLED",
        "visible-label": "ENABLED"
      },
      "creation-timestamp": "2015-01-14T14:12:25.000+0100",
      "update-timestamp": "2015-01-14T14:12:35.000+0100",
      "@uri": "/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-b5e7022lk892",
      "@id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892"
    },
          {
      "id": "8900a545-c2fc-4rz4-b71c-b5e7022lk89h",
      "identifier": "VNF_2",
      "physical": false,
      "categories":         [
...
      ],
      "artifact-version": null,
```

	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"@uri": "/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-b5e7022lk89h",
	"@id": "8900a545-c2fc-4rz4-b71c-b5e7022lk89h"
	}
	],
	"relationship-templates": [],
	"@uri": "/nfvd/template/6bdfadd6-bfeb-8888-a685-637f0f596e71",
	"@id": "6bdfadd6-bfeb-8888-a685-637f0f596e71"
	}

Possible errors	400 Bad request: Request syntax error
	404 Not found: Template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.13 Delete template tree

3.13.1 XML- JSON

Description	Deleting Template tree (just tree, neither artifacts nor relationships content)
HTTP method	`DELETE`
Resource	`/nfvd/template/tree/{id}`
Query Parameters	No needed
Relevant Headers	No needed
Request Body	No needed
RAW request example	DELETE http://localhost:8080/nfvd/template/tree/6bdfadd6-bfeb-6666-a685-637f0f596e71 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 06:59:47 GMT
Possible errors	400 Bad request: Request syntax error
	404 Not found: Template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.14 Delete tree and content

3.14.1 XML - JSON

Description	Deleting template tree and its related artifacts and relationships for id
HTTP method	DELETE
Resource	/nfvd/template/tree/{id}/cascade
Query Parameters	No needed
Relevant Headers	No needed
Request Body	No needed
RAW request example	DELETE http://localhost:8080/nfvd/template/tree/6bdfadd6-bfeb-8888-a685-637f0f596e71/cascade HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	
	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 06:59:47 GMT
Possible errors	400 Bad request: Request syntax error
	404 Not found: Template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.15 Delete element from tree

3.15.1 XML - JSON

Description	Deleting element from tree id	
HTTP method	DELETE	
Resource	/nfvd/template/tree/{id}/{elementId}	
Query Parameters	artifact	Optional, default true(artifact). If false delete relationship
Relevant Headers	No needed	
Request Body	No needed	
RAW request example	DELETE http://localhost:8080/nfvd/template/tree/6bdfadd6-bfeb-7777-a685-637f0f596e71/8900a545-c2fc-4rz4-b71c-b5e7022lk890 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example		
	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 06:59:47 GMT	
Possible errors	400 Bad request: Request syntax error	
	404 Not found: Template does not exist	
	500 Internal server error: An unexpected error occurred processing the request	

3.16 Artifacts

3.16.1 Get artifact templates by parameters

3.16.1.1 XML

Description	Get artifact templates by parameters	
HTTP method	GET	
Resource	/nfvd/template/artifact	
Query Parameters	family	Optional (default=null)
	category	Optional (default=null)
	group	Optional (default=null)
	type	Optional (default=null)
	subtype	Optional (default=null)
	exactMatching	Optional (default=false)
Relevant Headers	Accept: application/xml	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact?family=VNF&category=GENERIC&exactMatching=true HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Transfer-Encoding: chunked Date: Fri, 08 May 2015 07:57:45 GMT <artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template id="8900a545-c2fc-4rr4-b71c-b5e7022lk89h" uri="/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h"> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rr4-b71c-b5e7022lk89h</id> <identifier>VNF_3</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> ... </artifact-templates>	
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	

	500 Internal server error: An unexpected error occurred processing the request

3.16.1.2 JSON

Description	Get artifact templates by parameters	
HTTP method	GET	
Resource	/nfvd/template/artifact	
Query Parameters	family	Optional (default=null)
	category	Optional (default=null)
	group	Optional (default=null)
	type	Optional (default=null)
	subtype	Optional (default=null)
	exactMatching	Optional (default=false)
Relevant Headers	Accept: application/json	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact?family=VNF&category=GENERIC&exactMatching=true HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 08:00:28 GMT
	{"artifact-templates": [
	{
	"id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h",
	"identifier": "VNF_3",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"@uri": "/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h",
	"@id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h"
	},
	...	

	]}
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	500 Internal server error: An unexpected error occurred processing the request

3.16.2 Get artifact templates by parameters (paginated)

3.16.2.1 XML

Description	Get artifact templates by parameters (paginated)	
HTTP method	GET	
Resource	/nfvd/template/artifact/paginated	
Query Parameters	family	Optional (default=null)
	category	Optional (default=null)
	group	Optional (default=null)
	type	Optional (default=null)
	subtype	Optional (default=null)
	exactMatching	Optional (default=false)
	offset	Optional(default=0)
	items	Optional(default=50)
	sort	Optional(default=null) Sorteable fields= id, identifier, physical, creationTimestamp, updateTimestamp
Relevant Headers	Accept: application/xml	
Request Body	No Needed	
RAW request example	GET http:// localhost:8080/nfvd/template/artifact/paginated?family=VNF&offset=0&items=10&sort=creationTimestamp%2BDESC HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 X-Total-Count: 11 X-Link-First: /nfvd/template/artifact/paginated?offset=0&items=10&sort=creationTimestamp+DESC&family=VNF X-Link-Prev: /nfvd/template/artifact/paginated?offset=0&items=10&sort=creationTimestamp+DESC&family=VNF X-Link-Self: /nfvd/template/artifact/paginated?offset=0&items=10&sort=creationTimestamp+DESC&family=VNF X-Link-Next: /nfvd/template/artifact/paginated?offset=10&items=10&sort=creationTimestamp+DESC&family=VNF X-Link-Last: /nfvd/template/artifact/paginated?offset=10&items=10&sort=creationTimestamp+DESC&family=VNF Content-Type: application/xml Transfer-Encoding: chunked Date: Tue, 19 May 2015 13:42:28 GMT <artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template id="3ce42394-d276-48c2-a467-7fa3f315bb0c" uri="/nfvd/template/artifact/3ce42394-d276-48c2-a467-7fa3f315bb0c"> <artifact-definition> ..... …….. </artifact-template> </artifact-templates>	
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	

	500 Internal server error: An unexpected error occurred processing the request

3.16.2.2 JSON

Description	Get artifact templates by parameters (paginated)	
HTTP method	GET	
Resource	/nfvd/template/artifact/paginated	
Query Parameters	family	Optional (default=null)
	category	Optional (default=null)
	group	Optional (default=null)
	type	Optional (default=null)
	subtype	Optional (default=null)
	exactMatching	Optional (default=false)
	offset	Optional(default=0)
	items	Optional(default=50)
	sort	Optional(default=null) Sorteable fields= id, identifier, physical, creationTimestamp, updateTimestamp
Relevant Headers	Accept: application/json	
Request Body	No Needed	
RAW request example	GET http:// localhost:8080/nfvd/template/artifact/paginated?family=VNF&offset=0&items=5&sort=creationTimestamp%2BDESC%2C%20updateTimestamp%2BASC HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 X-Total-Count: 11 X-Link-First: /nfvd/template/artifact/paginated?offset=0&items=5&sort=creationTimestamp+DESC,updateTimestamp+ASC&family=VNF X-Link-Prev: /nfvd/template/artifact/paginated?offset=0&items=5&sort=creationTimestamp+DESC,updateTimestamp+ASC&family=VNF X-Link-Self: /nfvd/template/artifact/paginated?offset=0&items=5&sort=creationTimestamp+DESC,updateTimestamp+ASC&family=VNF X-Link-Next: /nfvd/template/artifact/paginated?offset=5&items=5&sort=creationTimestamp+DESC,updateTimestamp+ASC&family=VNF X-Link-Last: /nfvd/template/artifact/paginated?offset=10&items=5&sort=creationTimestamp+DESC,updateTimestamp+ASC&family=VNF Content-Type: application/json Transfer-Encoding: chunked Date: Tue, 19 May 2015 13:46:17 GMT {"artifact-templates": [{ ..... ……..	

	]}
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	500 Internal server error: An unexpected error occurred processing the request

3.16.3 Get artifact template by id

3.16.3.1 XML

Description	Get artifact template by id
HTTP method	GET
Resource	/nfvd/template/artifact/{id}
Query Parameters	No Needed
Relevant Headers	Accept: application/xml
Request Body	No Needed
RAW request example	GET http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 3116 Date: Fri, 08 May 2015 08:06:50 GMT <artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template id="8900a545-c2fc-4rr4-b71c-b5e7022lk89h" uri="/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h"> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rr4-b71c-b5e7022lk89h</id> <identifier>VNF_3</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> ... </artifact-templates>
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	404 Not found: Artifact template id does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.16.3.2 JSON

Description	Get artifact template by id

HTTP method	GET
Resource	/nfvd/template/artifact/{id}
Query Parameters	No Needed
Relevant Headers	Accept: application/json
Request Body	No Needed
RAW request example	GET http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 08:11:21 GMT
	{"artifact-templates": [
	{
	"id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h",
	"identifier": "VNF_3",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"@uri": "/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h",
	"@id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h"
	},
	...
	]}

Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	404 Not found: Artifact template id does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.16.4 Get artifact template by path

3.16.4.1 XML

Description	Get artifact template by path	
HTTP method	GET	
Resource	/nfvd/template/artifact/query/path	
Query Parameters	id	Mandatory
	expression	Mandatory
Relevant Headers	Accept: application/xml	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact/query/path?id=8900a545-c2fc-4rr4-b71c-b5e7022lk89h&expression=VNF%3AGENERIC HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 3116 Date: Fri, 08 May 2015 08:06:50 GMT <artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template id="8900a545-c2fc-4rr4-b71c-b5e7022lk89h" uri="/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h"> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rr4-b71c-b5e7022lk89h</id> <identifier>VNF_3</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> ... </artifact-templates>	
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	
	500 Internal server error: An unexpected error occurred processing the request	

3.16.4.2 JSON

Description	Get artifact template by path

HTTP method	GET	
Resource	/nfvd/template/artifact/query/path	
Query Parameters	id	Mandatory
	expression	Mandatory
Relevant Headers	Accept: application/json	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact/query/path?id=8900a545-c2fc-4rr4-b71c-b5e7022lk89h&expression=VNF%3AGENERIC HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 08:11:21 GMT
	{"artifact-templates": [
	{
	"id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h",
	"identifier": "VNF_3",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"@uri": "/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h",
	"@id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h"
	},
	...
	]}	

Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	
	500 Internal server error: An unexpected error occurred processing the request	

3.16.5 Get parents of an artifact

3.16.5.1 XML

Description	Get artifact templates parents of an artifact	
HTTP method	GET	
Resource	/nfvd/template/artifact/query/parents	
Query Parameters	id	Mandatory
	relationship	Optional
	definition	Optional
Relevant Headers	Accept: application/xml	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact/query/parents?id=e4e5de7a-c21d-461b-872a-08113b220035 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 2104 Date: Fri, 08 May 2015 09:31:40 GMT <artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template id="e759e2cd-5a8f-47c9-a03f-3349218ab60d" uri="/nfvd/template/artifact/e759e2cd-5a8f-47c9-a03f-3349218ab60d"> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_LINK</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-04-10T10:07:02.536+0200</creation-timestamp> <id>e759e2cd-5a8f-47c9-a03f-3349218ab60d</id> <identifier>VIRTUAL_LINK:e759e2cd-5a8f-47c9-a03f-3349218ab60d</identifier> <physical>false</physical> <update-timestamp>2015-04-10T10:07:02.726+0200</update-timestamp> </artifact-template> </artifact-templates>	
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	
	500 Internal server error: An unexpected error occurred processing the request	

3.16.5.2 JSON

Description	Get artifact templates parents of an artifact

HTTP method	GET	
Resource	/nfvd/template/artifact/query/parents	
Query Parameters	id	Optional
	relationship	Optional
	definition	Optional
Relevant Headers	Accept: application/json	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact/query/parents?id=e4e5de7a-c21d-461b-872a-08113b220035 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 09:34:34 GMT
	{"artifact-templates": [{
	"id": "e759e2cd-5a8f-47c9-a03f-3349218ab60d",
	"identifier": "VIRTUAL_LINK:e759e2cd-5a8f-47c9-a03f-3349218ab60d",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VIRTUAL_LINK",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-04-10T10:07:02.536+0200",
	"update-timestamp": "2015-04-10T10:07:02.726+0200",
	"@uri": "/nfvd/template/artifact/e759e2cd-5a8f-47c9-a03f-3349218ab60d",
	"@id": "e759e2cd-5a8f-47c9-a03f-3349218ab60d"
	}]}	

Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	
	500 Internal server error: An unexpected error occurred processing the request	

3.16.6 Get parents of an artifact recursively

3.16.6.1 XML

Description	Get artifact templates parents of an artifact recursively	
HTTP method	GET	
Resource	/nfvd/template/artifact/query/parents/recursive	
Query Parameters	id	Optional
	relationship	Optional
	definition	Optional
	relationshipFilterType	Optional
Relevant Headers	Accept: application/xml	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact/query/parents/recursive?id=e4e5de7a-c21d-461b-872a-08113b220035 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 2104 Date: Fri, 08 May 2015 09:31:40 GMT <artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template id="e759e2cd-5a8f-47c9-a03f-3349218ab60d" uri="/nfvd/template/artifact/e759e2cd-5a8f-47c9-a03f-3349218ab60d"> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_LINK</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-04-10T10:07:02.536+0200</creation-timestamp> <id>e759e2cd-5a8f-47c9-a03f-3349218ab60d</id> <identifier>VIRTUAL_LINK:e759e2cd-5a8f-47c9-a03f-3349218ab60d</identifier> <physical>false</physical> <update-timestamp>2015-04-10T10:07:02.726+0200</update-timestamp> </artifact-template> … </artifact-templates>	
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	
	500 Internal server error: An unexpected error occurred processing the request	

3.16.6.2 JSON

Description	Get artifact templates parents of an artifact recursively	
HTTP method	GET	
Resource	/nfvd/template/artifact/query/parents/recursive	
Query Parameters	id	Optional
	relationship	Optional
	definition	Optional
	relationshipFilterType	Optional
Relevant Headers	Accept: application/json	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact/query/parents/recursive?id=e4e5de7a-c21d-461b-872a-08113b220035 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 09:34:34 GMT
	{"artifact-templates": [{
	"id": "e759e2cd-5a8f-47c9-a03f-3349218ab60d",
	"identifier": "VIRTUAL_LINK:e759e2cd-5a8f-47c9-a03f-3349218ab60d",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VIRTUAL_LINK",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-04-10T10:07:02.536+0200",
	"update-timestamp": "2015-04-10T10:07:02.726+0200",
	"@uri": "/nfvd/template/artifact/e759e2cd-5a8f-47c9-a03f-3349218ab60d",
	"@id": "e759e2cd-5a8f-47c9-a03f-3349218ab60d"
	},
	…
	]}	

Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	
	500 Internal server error: An unexpected error occurred processing the request	

3.16.7 Get children of an artifact

3.16.7.1 XML

Description	Get artifacts children of an artifact	
HTTP method	GET	
Resource	/nfvd/template/artifact/query/children	
Query Parameters	id	Optional
	relationship	Optional
	definition	Optional
Relevant Headers	Accept: application/xml	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact/query/parents?id=e4e5de7a-c21d-461b-872a-08113b220035 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 2104 Date: Fri, 08 May 2015 09:31:40 GMT <artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template id="e759e2cd-5a8f-47c9-a03f-3349218ab60d" uri="/nfvd/template/artifact/e759e2cd-5a8f-47c9-a03f-3349218ab60d"> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_LINK</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-04-10T10:07:02.536+0200</creation-timestamp> <id>e759e2cd-5a8f-47c9-a03f-3349218ab60d</id> <identifier>VIRTUAL_LINK:e759e2cd-5a8f-47c9-a03f-3349218ab60d</identifier> <physical>false</physical> <update-timestamp>2015-04-10T10:07:02.726+0200</update-timestamp> </artifact-template> </artifact-templates>	
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	
	500 Internal server error: An unexpected error occurred processing the request	

3.16.7.2 JSON

Description	Get artifacts children of an artifact

HTTP method	GET	
Resource	/nfvd/template/artifact/query/children	
Query Parameters	id	Optional
	relationship	Optional
	definition	Optional
Relevant Headers	Accept: application/json	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact/query/parents?id=e4e5de7a-c21d-461b-872a-08113b220035 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 09:34:34 GMT
	{"artifact-templates": [{
	"id": "e759e2cd-5a8f-47c9-a03f-3349218ab60d",
	"identifier": "VIRTUAL_LINK:e759e2cd-5a8f-47c9-a03f-3349218ab60d",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VIRTUAL_LINK",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-04-10T10:07:02.536+0200",
	"update-timestamp": "2015-04-10T10:07:02.726+0200",
	"@uri": "/nfvd/template/artifact/e759e2cd-5a8f-47c9-a03f-3349218ab60d",
	"@id": "e759e2cd-5a8f-47c9-a03f-3349218ab60d"
	}]}	

Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	
	500 Internal server error: An unexpected error occurred processing the request	

3.16.8 Get children of an artifact recursively

3.16.8.1 XML

Description	Get artifacts children of an artifact recursively

HTTP method	GET	
Resource	/nfvd/template/artifact/query/children/recursive	
Query Parameters	id	Optional
	relationship	Optional
	definition	Optional
	relationshipFilterType	Optional
Relevant Headers	Accept: application/xml	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact/query/parents/recursive?id=e4e5de7a-c21d-461b-872a-08113b220035 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 2104 Date: Fri, 08 May 2015 09:31:40 GMT <artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template id="e759e2cd-5a8f-47c9-a03f-3349218ab60d" uri="/nfvd/template/artifact/e759e2cd-5a8f-47c9-a03f-3349218ab60d"> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_LINK</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-04-10T10:07:02.536+0200</creation-timestamp> <id>e759e2cd-5a8f-47c9-a03f-3349218ab60d</id> <identifier>VIRTUAL_LINK:e759e2cd-5a8f-47c9-a03f-3349218ab60d</identifier> <physical>false</physical> <update-timestamp>2015-04-10T10:07:02.726+0200</update-timestamp> </artifact-template> … </artifact-templates>	
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	
	500 Internal server error: An unexpected error occurred processing the request	

3.16.8.2 JSON

Description	Get artifacts children of an artifact recursively
HTTP method	GET
Resource	/nfvd/template/artifact/query/children/recursive

Query Parameters	id	Optional
	relationship	Optional
	definition	Optional
	relationshipFilterType	Optional
Relevant Headers	Accept: application/json	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact/query/parents/recursive?id=e4e5de7a-c21d-461b-872a-08113b220035 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 09:34:34 GMT
	{"artifact-templates": [{
	"id": "e759e2cd-5a8f-47c9-a03f-3349218ab60d",
	"identifier": "VIRTUAL_LINK:e759e2cd-5a8f-47c9-a03f-3349218ab60d",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VIRTUAL_LINK",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-04-10T10:07:02.536+0200",
	"update-timestamp": "2015-04-10T10:07:02.726+0200",
	"@uri": "/nfvd/template/artifact/e759e2cd-5a8f-47c9-a03f-3349218ab60d",
	"@id": "e759e2cd-5a8f-47c9-a03f-3349218ab60d"
	},
	…
	]}	

Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	
	500 Internal server error: An unexpected error occurred processing the request	

3.16.9 Get tree ids

3.16.9.1 XML

Description	Get tree ids in which the artifact template id belongs to
HTTP method	GET
Resource	/nfvd/template/artifact/{id}/tree
Query Parameters	No Needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	No Needed
RAW request example	GET http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-b5e7022lk89h/tree HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 199 Date: Fri, 08 May 2015 10:06:34 GMT <uuids xmlns="http://www.hp.com/nfvd"> <uuid>6bdfadd6-bfeb-7776-a685-637f0f596e71</uuid> <uuid>6bdfadd6-bfeb-7777-a685-637f0f596e71</uuid> </uuids>
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format. 500 Internal server error: An unexpected error occurred processing the request

3.16.9.2 JSON

Description	Get tree ids in which the artifact template id belongs to
HTTP method	GET
Resource	/nfvd/template/artifact/{id}/tree
Query Parameters	No Needed
Relevant Headers	Content-type: application/json Accept: application/json
Request Body	No Needed
RAW request example	GET http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rz4-b71c-b5e7022lk89h/tree HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Fri, 08 May 2015 10:07:23 GMT {"uuids": ["6bdfadd6-bfeb-7776-a685-637f0f596e71", "6bdfadd6-bfeb-7777-a685-637f0f596e71"]}
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	500 Internal server error: An unexpected error occurred processing the request

3.16.10 Get by misc parameters

3.16.10.1 XML

Description	Get artifact by misc parameters	
HTTP method	GET	
Resource	/nfvd/template/artifact/query/parameters	
Query Parameters	definition	Mandatory
	status	Optional
	treeId	Optional
	attributeFilter	Optional
Relevant Headers	Accept: application/xml	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact/query/parameters?definition=VNF%3AGENERIC HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Transfer-Encoding: chunked Date: Fri, 08 May 2015 10:48:21 GMT <artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template id="8900a545-c2fc-4rr4-b71c-b5e7022lk89h" uri="/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h"> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rr4-b71c-b5e7022lk89h</id> <identifier>VNF_3</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> ... </artifact-templates>	
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	
	500 Internal server error: An unexpected error occurred processing the request	

3.16.10.2 JSON

Description	Get artifact by misc parameters	
HTTP method	GET	
Resource	/nfvd/template/artifact/query/parameters	
Query Parameters	definition	Mandatory
	status	Optional
	treeId	Optional
	attributeFilter	Optional
Relevant Headers	Accept: application/xml	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact/query/parameters?definition=VNF%3AGENERIC HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 10:49:24 GMT
	
	{"artifact-templates": [
	{
	"id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h",
	"identifier": "VNF_3",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"@uri": "/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h",
	"@id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h"
	},
	...
	]}	

Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	
	500 Internal server error: An unexpected error occurred processing the request	

3.16.11 Get attribute by parameters

3.16.11.1 XML

Description	Get attribute by parameters
HTTP method	GET
Resource	/nfvd/template/artifact/{id}/{cat}/{att}
Query Parameters	No needed
Relevant Headers	Accept: application/xml
Request Body	No Needed
RAW request example	GET http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h/LAST_OPERATION/Result_description HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 220 Date: Fri, 08 May 2015 10:59:47 GMT <attribute xmlns="http://www.hp.com/nfvd"> <label>Result_description</label> <mandatory>false</mandatory> <order>3</order> <type>TEXT</type> <unit>TEXT</unit> </attribute>
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	404 Not found: Artifact template id or category or attribute do not exist
	500 Internal server error: An unexpected error occurred processing the request

3.16.11.2 JSON

Description	Get attribute by parameters
HTTP method	GET
Resource	/nfvd/template/artifact/{id}/{cat}/{att}
Query Parameters	No Needed
Relevant Headers	Accept: application/json
Request Body	No Needed
RAW request example	GET http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h/LAST_OPERATION/Result_description HTTP/1.1 Accept-Encoding: gzip,deflate

	Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 11:00:51 GMT
	{
	"order": 3,
	"mandatory": false,
	"value": null,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Result_description"
	}

Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	404 Not found: Artifact template id or category or attribute do not exist
	500 Internal server error: An unexpected error occurred processing the request

3.16.12 Download all template artifacts

3.16.12.1 XML

Description	Returns all template artifacts.	
HTTP method	GET	
Resource	/nfvd/template/artifact/download	
Query Parameters	offset	Optional(default=0)
	items	Optional(default=50)
	sort	Optional(default=null) Sorteable fields= id
Relevant Headers	Accept: application/xml	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact/download?offset=0&items=2 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 X-Total-Count: 168 X-Link-First: /nfvd/template/artifact/download?offset=0&items=2 X-Link-Prev: /nfvd/template/artifact/download?offset=0&items=2 X-Link-Self: /nfvd/template/artifact/download?offset=0&items=2 X-Link-Next: /nfvd/template/artifact/download?offset=2&items=2 X-Link-Last: /nfvd/template/artifact/download?offset=168&items=2 Content-Type: application/xml Content-Length: 6038 Date: Fri, 19 Jun 2015 09:11:45 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes <artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template id="8900a545-c2fc-4ad4-b71c-b5e7022lk890" uri="/nfvd/template/artifact/8900a545-c2fc-4ad4-b71c-b5e7022lk890"> <artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> [...] </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4ad4-b71c-b5e7022lk890</id> <identifier>VNF_COMPONENT_4</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> <artifact-template id="8900a545-c2fc-4ad4-b71c-b5e7022lk892" uri="/nfvd/template/artifact/8900a545-c2fc-4ad4-b71c-b5e7022lk892">	

```
      <artifact-definition>
        <category>GENERIC</category>
        <family>VIRTUAL_MACHINE</family>
      </artifact-definition>
      <status>
        <enabled>true</enabled>
        <label>ENABLED</label>
        <visible-label>ENABLED</visible-label>
      </status>
      <categories>
        [...]
      </categories>
      <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
      <id>8900a545-c2fc-4ad4-b71c-b5e7022lk892</id>
      <identifier>VIRTUAL_MACHINE_4</identifier>
      <physical>false</physical>
      <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
    </artifact-template>
  </artifact-templates>
```


Possible errors	HTTP 500: In case processing error in server side.

3.16.12.2 JSON

Description	Returns all template artifacts.	
HTTP method	GET	
Resource	/nfvd/template/artifact/download	
Query Parameters	offset	Optional(default=0)
	items	Optional(default=50)
	sort	Optional(default=null) Sorteable fields= id
Relevant Headers	Accept: application/json	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/template/artifact/download?offset=0&items=2 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 X-Total-Count: 168 X-Link-First: /nfvd/template/artifact/download?offset=0&items=2 X-Link-Prev: /nfvd/template/artifact/download?offset=0&items=2 X-Link-Self: /nfvd/template/artifact/download?offset=0&items=2 X-Link-Next: /nfvd/template/artifact/download?offset=2&items=2 X-Link-Last: /nfvd/template/artifact/download?offset=168&items=2 Content-Type: application/json Transfer-Encoding: chunked Date: Fri, 19 Jun 2015 09:11:45 GMT {	

```
  "artifact-templates": [
    {
      "id": "8900a545-c2fc-4ad4-b71c-b5e7022lk890",
      "identifier": "VNF_COMPONENT_4",
      "physical": false,
      "categories": [],
      "artifact-version": null,
      "artifact-definition": {
        "family": "VNF_COMPONENT",
        "category": "GENERIC",
        "group": null,
        "type": null,
        "subtype": null,
        "version": null
      },
      "status": {
        "enabled": true,
        "label": "ACTIVE",
        "visible-label": "ACTIVE"
      },
      "creation-timestamp": "2015-01-14T14:12:25.000+0100",
      "update-timestamp": "2015-01-14T14:12:35.000+0100",
      "@uri": "/nfvd/template/artifact/8900a545-c2fc-4ad4-b71c-b5e7022lk890",
      "@id": "8900a545-c2fc-4ad4-b71c-b5e7022lk890"
    },
    {
      "id": "8900a545-c2fc-4ad4-b71c-b5e7022lk892",
      "identifier": "VIRTUAL_MACHINE_4",
      "physical": false,
      "categories": [],
      "artifact-version": null,
      "artifact-definition": {
        "family": "VIRTUAL_MACHINE",
        "category": "GENERIC",
        "group": null,
        "type": null,
        "subtype": null,
        "version": null
      },
      "status": {
        "enabled": true,
        "label": "ENABLED",
        "visible-label": "ENABLED"
      },
      "creation-timestamp": "2015-01-14T14:12:25.000+0100",
      "update-timestamp": "2015-01-14T14:12:35.000+0100",
      "@uri": "/nfvd/template/artifact/8900a545-c2fc-4ad4-b71c-b5e7022lk892",
      "@id": "8900a545-c2fc-4ad4-b71c-b5e7022lk892"
    }
  ]
}
```


Possible errors	HTTP 500: In case processing error in server side.

3.16.13 Create artifacts template

3.16.13.1 XML

Description	Creating ArtifactTemplate set
HTTP method	POST
Resource	/nfvd/template/artifact
Query Parameters	No Needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-eeee-b71c-b5e7022lk89h</id> <identifier>VNF_55</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> ... </artifact-templates>
RAW request example	POST http://localhost:8080/nfvd/template/artifact HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 10266 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <artifact-templates xmlns="http://www.hp.com/nfvd"> …… (see request body) …….. </artifact-templates>
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 5481 Date: Fri, 08 May 2015 11:15:22 GMT <artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status>

	<enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-eeee-b71c-b5e7022lk89h</id> <identifier>VNF_55</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> ... </artifact-templates>
Possible errors	400 Bad request: Request syntax error
	409 Conflict: Artifact already exists
	500 Internal server error: An unexpected error occurred processing the request

3.16.13.2 JSON

Description	Creating ArtifactTemplate set
HTTP method	POST
Resource	/nfvd/template/artifact
Query Parameters	No Needed
Relevant Headers	Content-type: application/json Accept: application/json

Request Body	{"artifact-templates": [
	{
	"id": "8900a545-c2fc-4ty4-b71c-b5e7022lk89h",
	"identifier": "VNF_yy",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100"
	}
	]
	}

RAW request example	POST http://localhost:8080/nfvd/template/artifact HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 6706 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) {"artifact-templates": […… (see request body) …….. }
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Fri, 08 May 2015 11:45:48 GMT {"artifact-templates": [{ "id": "8900a545-c2fc-4ty4-b71c-b5e7022lk89h",

	"identifier": "VNF_yy",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100"
	}
	]
	}

Possible errors	400 Bad request: Request syntax error
	409 Conflict: Artifact already exists
	500 Internal server error: An unexpected error occurred processing the request

3.16.14 Create artifacts template with new UUID

3.16.14.1 XML

Description	Create artifacts with new UUID
HTTP method	POST
Resource	/nfvd/template/artifact/uuid
Query Parameters	No Needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <identifier>VNF_55</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> ... </artifact-templates>
RAW request example	POST http://localhost:8080/nfvd/template/artifact HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 10266 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <artifact-templates xmlns="http://www.hp.com/nfvd"> …… (see request body) …….. </artifact-templates>
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 5481 Date: Fri, 08 May 2015 11:15:22 GMT <artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template id="7bf51a47-c1c2-4f94-b8d5-f7245f5daa80" uri="/nfvd/template/artifact/7bf51a47-c1c2-4f94-b8d5-f7245f5daa80" > <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status>

	`<enabled>true</enabled>`
	`<label>ACTIVE</label>`
	`<visible-label>ACTIVE</visible-label>`
	`</status>`
	`<categories>`
	...
	`</categories>`
	`<creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>`
	`<id>7bf51a47-c1c2-4f94-b8d5-f7245f5daa80 </id>`
	`<identifier>VNF_55</identifier>`
	`<physical>false</physical>`
	`<update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>`
	`</artifact-template>`
	...
	`</artifact-templates>`

Possible errors	400 Bad request: Request syntax error
	500 Internal server error: An unexpected error occurred processing the request

3.16.14.2 JSON

Description	Create artifacts with new UUID
HTTP method	POST
Resource	/nfvd/template/artifact/uuid
Query Parameters	No Needed
Relevant Headers	Content-type: application/json
	Accept: application/json

Request Body	{"artifact-templates": [
	{
	"identifier": "VNF_yy",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100"
	}
	]
	}

RAW request example	POST http://localhost:8080/nfvd/template/artifact HTTP/1.1 Accept-Encoding: gzip,deflate

	Content-Type: application/json Accept: application/json Content-Length: 6706 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <artifact-templates xmlns="http://www.hp.com/nfvd"> …… (see request body) …….. </artifact-templates>

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 11:45:48 GMT
	
	{"artifact-templates": [
	{
	"id": "390d5cf0-4ee4-4f00-9478-f5ce9f55b9a7",
	"identifier": "VNF_yy",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"@uri": "/nfvd/template/artifact/390d5cf0-4ee4-4f00-9478-f5ce9f55b9a7",
	"@id": "390d5cf0-4ee4-4f00-9478-f5ce9f55b9a7"
	}
	]
	}

Possible errors	400 Bad request: Request syntax error
	500 Internal server error: An unexpected error occurred processing the request

3.16.15 Create artifact template category

3.16.15.1 XML

Description	Create a new category of an artifact
HTTP method	POST
Resource	/nfvd/template/artifact/{id}/{cat}

Query Parameters	No Needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<category xmlns="http://www.hp.com/nfvd"> <attributes> <attribute> <label>Result_code</label> <mandatory>false</mandatory> <order>2</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Operation</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Result_description</label> <mandatory>false</mandatory> <order>3</order> <type>TEXT</type> <unit>TEXT</unit> <value>12</value> </attribute> </attributes> <label>LAST_OPERATION</label> <order>4</order> </category>
RAW request example	POST http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h/LAST_OPERATION HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 907 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 3134 Date: Mon, 22 Jun 2015 06:43:32 GMT <artifact-template id="8900a545-c2fc-4rr4-b71c-b5e7022lk89h" uri="/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h" xmlns="http://www.hp.com/nfvd"> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> <category>

	`<attributes>`
	`<attribute>`
	`<label>Operation</label>`
	`<mandatory>false</mandatory>`
	`<order>1</order>`
	`<type>TEXT</type>`
	`<unit>TEXT</unit>`
	`</attribute>`
	`<attribute>`
	`<label>Result_code</label>`
	`<mandatory>false</mandatory>`
	`<order>2</order>`
	`<type>TEXT</type>`
	`<unit>TEXT</unit>`
	`</attribute>`
	`<attribute>`
	`<label>Result_description</label>`
	`<mandatory>false</mandatory>`
	`<order>3</order>`
	`<type>TEXT</type>`
	`<unit>TEXT</unit>`
	`<value>12</value>`
	`</attribute>`
	`</attributes>`
	`<label>LAST_OPERATION</label>`
	`<order>4</order>`
	`</category>`
	…
	`</categories>`
	`<creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>`
	`<id>8900a545-c2fc-4rr4-b71c-b5e7022lk89h</id>`
	`<identifier>VNF_3</identifier>`
	`<physical>false</physical>`
	`<update-timestamp>2015-05-18T12:12:42.028+0200</update-timestamp>`
	`</artifact-template>`

Possible errors	400 Bad request: Request syntax error
	409 Conflict: Category already exists
	500 Internal server error: An unexpected error occurred processing the request

3.16.15.2 JSON

Description	Create a new category of an artifact
HTTP method	POST
Resource	/nfvd/template/artifact/{id}/{cat}
Query Parameters	No Needed
Relevant Headers	Content-type: application/ json
	Accept: application/ json
Request Body	{ "order": 4, "attributes": [{

	"order": 1,
	"mandatory": false,
	"value": null,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Operation"
	},
	{
	"order": 2,
	"mandatory": false,
	"value": null,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Result_code"
	},
	{
	"order": 3,
	"mandatory": false,
	"value": "14",
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Result_description"
	}
	],
	"label": "LAST_OPERATION"
	}

RAW request example	POST http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h/LAST_OPERATION HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 1050 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Mon, 22 Jun 2015 06:46:22 GMT { "id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h", "identifier": "VNF_3", "physical": false, "categories": [{ "order": 4, "attributes": [{ "order": 1, "mandatory": false, "value": null, "description": null, "type": "TEXT", "unit": "TEXT", "label": "Operation" }, {

```
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_code"
          },
                {
            "order": 3,
            "mandatory": false,
            "value": "14",
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_description"
          }
        ],
        "label": "LAST_OPERATION"
      },
 …
  ],
  "artifact-version": null,
  "artifact-definition":    {
    "family": "VNF",
    "category": "GENERIC",
    "group": null,
    "type": null,
    "subtype": null,
    "version": null
  },
  "status":    {
    "enabled": true,
    "label": "ACTIVE",
    "visible-label": "ACTIVE"
  },
  "creation-timestamp": "2015-01-14T14:12:25.000+0100",
  "update-timestamp": "2015-05-18T12:12:42.028+0200",
  "@uri": "/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h",
  "@id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h"
}
```


Possible errors	400 Bad request: Request syntax error
	409 Conflict: Category already exists
	500 Internal server error: An unexpected error occurred processing the request

3.16.16 Create artifact template attribute

3.16.16.1 XML

Description	Create a new attribute in a category of an artifact	
HTTP method	POST	
Resource	/nfvd/template/artifact/{id}/{cat}/{att}	
Query Parameters	value	Mandatory
Relevant Headers	Content-type: application/xml Accept: application/xml	
Request Body	No needed	
RAW request example	POST http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h/LAST_OPERATION/Result_code?value=1 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 3132 Date: Fri, 08 May 2015 12:10:37 GMT <artifact-template id="8900a545-c2fc-4rr4-b71c-b5e7022lk89h" uri="/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h" xmlns="http://www.hp.com/nfvd"> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> <category> <attributes> <attribute> <label>Result_description</label> <mandatory>false</mandatory> <order>3</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Operation</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Result_code</label>	

	<mandatory>false</mandatory> <order>2</order> <type>TEXT</type> <unit>TEXT</unit> <value>1</value> </attribute> </attributes> <label>LAST_OPERATION</label> <order>4</order> </category> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rr4-b71c-b5e7022lk89h</id> <identifier>VNF_3</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template>
Possible errors	400 Bad request: Request syntax error
	409 Conflict: Artifact already exists
	500 Internal server error: An unexpected error occurred processing the request

3.16.16.2 JSON

Description	Create a new attribute in a category of an artifact	
HTTP method	POST	
Resource	/nfvd/template/artifact/{id}/{cat}/{att}	
Query Parameters	value	Mandatory
Relevant Headers	Content-type: application/json	
	Accept: application/json	
Request Body	No needed	
RAW request example	POST http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h/LAST_OPERATION/Result_code?value=1 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Fri, 08 May 2015 12:15:06 GMT { "id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h", "identifier": "VNF_3", "physical": false,	

```
  "categories":    [
          {
      "order": 4,
      "attributes":         [
                  {
          "order": 3,
          "mandatory": false,
          "value": null,
          "description": null,
          "type": "TEXT",
          "unit": "TEXT",
          "label": "Result_description"
        },
                  {
          "order": 1,
          "mandatory": false,
          "value": null,
          "description": null,
          "type": "TEXT",
          "unit": "TEXT",
          "label": "Operation"
        },
                  {
          "order": 2,
          "mandatory": false,
          "value": "1",
          "description": null,
          "type": "TEXT",
          "unit": "TEXT",
          "label": "Result_code"
        }
      ],
      "label": "LAST_OPERATION"
    },
...
  ],
  "artifact-version": null,
  "artifact-definition":    {
    "family": "VNF",
    "category": "GENERIC",
    "group": null,
    "type": null,
    "subtype": null,
    "version": null
  },
  "status":    {
    "enabled": true,
    "label": "ACTIVE",
    "visible-label": "ACTIVE"
  },
  "creation-timestamp": "2015-01-14T14:12:25.000+0100",
  "update-timestamp": "2015-01-14T14:12:35.000+0100",
  "@uri": "/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h",
  "@id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h"
}
```


Possible errors	400 Bad request: Request syntax error
	409 Conflict: Artifact already exists

	500 Internal server error: An unexpected error occurred processing the request

3.16.17 Update artifacts template

3.16.17.1 XML

Description	Update artifact set
HTTP method	PUT
Resource	/nfvd/template/artifact
Query Parameters	No Needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-eeee-b71c-b5e7022lk89h</id> <identifier>VNF_55</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> ... </artifact-templates>
RAW request example	PUT http://localhost:8080/nfvd/template/artifact HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 10266 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <artifact-templates xmlns="http://www.hp.com/nfvd"> …… (see request body) …….. </artifact-templates>
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 5481 Date: Fri, 08 May 2015 11:15:22 GMT <artifact-templates xmlns="http://www.hp.com/nfvd"> <artifact-template> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status>

	<enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-eeee-b71c-b5e7022lk89h</id> <identifier>VNF_55</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template> ... </artifact-templates>
Possible errors	400 Bad request: Request syntax error
	404 Not found: Artifact template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.16.17.2 JSON

Description	Update artifact set
HTTP method	PUT
Resource	/nfvd/template/artifact
Query Parameters	No Needed
Relevant Headers	Content-type: application/json
	Accept: application/json

Request Body	{"artifact-templates": [
	{
	"id": "8900a545-c2fc-4ty4-b71c-b5e7022lk89h",
	"identifier": "VNF_yy",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",

	"update-timestamp": "2015-01-14T14:12:35.000+0100" }] }
RAW request example	PUT http://localhost:8080/nfvd/template/artifact HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 6706 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <artifact-templates xmlns="http://www.hp.com/nfvd"> …… (see request body) …….. </artifact-templates>

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 11:45:48 GMT
	
	{"artifact-templates": [
	{
	"id": "8900a545-c2fc-4ty4-b71c-b5e7022lk89h",
	"identifier": "VNF_yy",
	"physical": false,
	"categories": [
	...
	],
	"artifact-version": null,
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100"
	}
	]
	}

Possible errors	400 Bad request: Request syntax error
	404 Not found: Artifact template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.16.18 Update category of artifact template

3.16.18.1 XML

Description	Update category of an artifact
HTTP method	PUT
Resource	/nfvd/template/artifact /{id}/{cat}
Query Parameters	No needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<category xmlns="http://www.hp.com/nfvd"> <attributes> <attribute> <label>Result_description</label> <mandatory>false</mandatory> <order>3</order> <type>TEXT</type> <unit>TEXT</unit> <value>12</value> </attribute> </attributes> <label>LAST_OPERATION</label> <order>4</order> </category>
RAW request example	PUT http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h/LAST_OPERATION HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 483 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 3134 Date: Mon, 22 Jun 2015 06:41:44 GMT <artifact-template id="8900a545-c2fc-4rr4-b71c-b5e7022lk89h" uri="/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h" xmlns="http://www.hp.com/nfvd"> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> <category> <attributes> <attribute> <label>Result_code</label> <mandatory>false</mandatory> <order>2</order> <type>TEXT</type>

	<unit>TEXT</unit> </attribute> <attribute> <label>Operation</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Result_description</label> <mandatory>false</mandatory> <order>3</order> <type>TEXT</type> <unit>TEXT</unit> <value>12</value> </attribute> </attributes> <label>LAST_OPERATION</label> <order>4</order> </category> … </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rr4-b71c-b5e7022lk89h</id> <identifier>VNF_3</identifier> <physical>false</physical> <update-timestamp>2015-05-18T12:12:42.028+0200</update-timestamp> </artifact-template>
Possible errors	400 Bad request: Request syntax error
	404 Not found: Artifact/Category template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.16.18.2 JSON

Description	Update category of an artifact
HTTP method	PUT
Resource	/nfvd/template/artifact /{id}/{cat}
Query Parameters	No needed
Relevant Headers	Content-type: application/json
	Accept: application/ json
Request Body	{ "order": 4, "attributes": [{ "order": 1, "mandatory": false, "value": null, "description": null, "type": "TEXT", "unit": "TEXT",

	"label": "Operation"
	},
	{
	"order": 2,
	"mandatory": false,
	"value": null,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Result_code"
	},
	{
	"order": 3,
	"mandatory": false,
	"value": "14",
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Result_description"
	}
	],
	"label": "LAST_OPERATION"
	}

RAW request example	PUT http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h/LAST_OPERATION HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 1050 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Mon, 22 Jun 2015 06:45:52 GMT { "id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h", "identifier": "VNF_3", "physical": false, "categories": [{ "order": 4, "attributes": [{ "order": 1, "mandatory": false, "value": null, "description": null, "type": "TEXT", "unit": "TEXT", "label": "Operation" }, { "order": 2, "mandatory": false, "value": null, "description": null, "type": "TEXT", "unit": "TEXT",

```
            "label": "Result_code"
          },
                {
            "order": 3,
            "mandatory": false,
            "value": "14",
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_description"
          }
        ],
        "label": "LAST_OPERATION"
      },
…
  ],
  "artifact-version": null,
  "artifact-definition":    {
    "family": "VNF",
    "category": "GENERIC",
    "group": null,
    "type": null,
    "subtype": null,
    "version": null
  },
  "status":    {
    "enabled": true,
    "label": "ACTIVE",
    "visible-label": "ACTIVE"
  },
  "creation-timestamp": "2015-01-14T14:12:25.000+0100",
  "update-timestamp": "2015-05-18T12:12:42.028+0200",
  "@uri": "/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h",
  "@id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h"
}
```


Possible errors	400 Bad request: Request syntax error
	404 Not found: Artifact/Category template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.16.19 Update attribute of artifact template

3.16.19.1 XML

Description	Update attribute in a category of an artifact	
HTTP method	PUT	
Resource	/nfvd/template/artifact /{id}/{cat}/{att}	
Query Parameters	value	mandatory
Relevant Headers	Content-type: application/xml Accept: application/xml	
Request Body	No needed	
RAW request example	PUT http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h/LAST_OPERATION/Result_code?value=1 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 3132 Date: Fri, 08 May 2015 12:10:37 GMT <artifact-template id="8900a545-c2fc-4rr4-b71c-b5e7022lk89h" uri="/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h" xmlns="http://www.hp.com/nfvd"> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> <category> <attributes> <attribute> <label>Result_description</label> <mandatory>false</mandatory> <order>3</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Operation</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Result_code</label> <mandatory>false</mandatory>	

	<order>2</order> <type>TEXT</type> <unit>TEXT</unit> <value>1</value> </attribute> </attributes> <label>LAST_OPERATION</label> <order>4</order> </category> ... </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>8900a545-c2fc-4rr4-b71c-b5e7022lk89h</id> <identifier>VNF_3</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-template>
Possible errors	400 Bad request: Request syntax error
	404 Not found: Artifact template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.16.19.2 JSON

Description	Update attribute	
HTTP method	PUT	
Resource	/nfvd/template/artifact /{id}/{cat}/{att}	
Query Parameters	value	Mandatory
Relevant Headers	Content-type: application/json	
	Accept: application/json	
Request Body	No needed	
RAW request example	PUT http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h/LAST_OPERATION/Result_code?value=1 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Fri, 08 May 2015 12:15:06 GMT { "id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h", "identifier": "VNF_3", "physical": false, "categories": [	

```
            {
        "order": 4,
        "attributes":         [
                    {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_description"
          },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operation"
          },
                    {
            "order": 2,
            "mandatory": false,
            "value": "1",
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_code"
          }
        ],
        "label": "LAST_OPERATION"
      },
...
  ],
  "artifact-version": null,
  "artifact-definition":    {
    "family": "VNF",
    "category": "GENERIC",
    "group": null,
    "type": null,
    "subtype": null,
    "version": null
  },
  "status":    {
    "enabled": true,
    "label": "ACTIVE",
    "visible-label": "ACTIVE"
  },
  "creation-timestamp": "2015-01-14T14:12:25.000+0100",
  "update-timestamp": "2015-01-14T14:12:35.000+0100",
  "@uri": "/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h",
  "@id": "8900a545-c2fc-4rr4-b71c-b5e7022lk89h"
}
```


Possible errors	400 Bad request: Request syntax error
	404 Not found: Artifact template does not exist

	500 Internal server error: An unexpected error occurred processing the request

3.16.20 Delete artifact template by id

3.16.20.1 XML- JSON

Description	Delete artifact template by id
HTTP method	DELETE
Resource	/nfvd/template/artifact/{id}
Query Parameters	No needed
Relevant Headers	No needed
Request Body	No needed
RAW request example	DELETE http://localhost:8080/nfvd/template/artifact/654637ff-b720-4ffb-994d-17bc73dd3158 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 06:59:47 GMT
Possible errors	400 Bad request: Request syntax error
	404 Not found: Template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.16.21 Delete Category of artifact template

3.16.21.1 XML-JSON

Description	Delete category of artifact template
HTTP method	DELETE
Resource	/nfvd/template/artifact/{id}/{cat}
Query Parameters	No needed
Relevant Headers	No needed
Request Body	No needed
RAW request example	DELETE http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h/LAST_OPERATION HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 06:59:47 GMT
Possible errors	400 Bad request: Request syntax error
	404 Not found: Artifact/Category does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.16.22 Delete attribute of artifact template

3.16.22.1 XML-JSON

Description	Delete attribute in a category of artifact template
HTTP method	DELETE
Resource	/nfvd/template/artifact/{id}/{cat}/{att}
Query Parameters	No needed
Relevant Headers	No needed
Request Body	No needed
RAW request example	DELETE http://localhost:8080/nfvd/template/artifact/8900a545-c2fc-4rr4-b71c-b5e7022lk89h/LAST_OPERATION/Result_code HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 06:59:47 GMT
Possible errors	400 Bad request: Request syntax error
	404 Not found: Artifact template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.17 Relationships

3.17.1 Get relationships template

3.17.1.1 XML

Description	Get relationships template by parameters	
HTTP method	GET	
Resource	/nfvd/template/relationship	
Query Parameters	parentArtifactTemplateId	Mandatory
	childArtifactTemplateId	Mandatory
	relationshipType	Optinal
Relevant Headers	Accept: application/xml	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/relationship?relationshipType=INCLUDE&parentArtifactTemplateId=8900a545-c2fc-4rz4-b71c-b5e7022lk890&childArtifactTemplateId=8900a545-c2fc-4rz4-b71c-b5e7022lk892 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 676 Date: Mon, 11 May 2015 07:26:54 GMT <relationship-templates xmlns="http://www.hp.com/nfvd"> <relationship-template id="178" uri="/nfvd/template/relationship/178"> <categories/> <child-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</child-artifact-id> <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp> <parent-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</parent-artifact-id> <status> <enabled>true</enabled> <label>DISABLED</label> <visible-label>DISABLED</visible-label> </status> <relationship-type>INCLUDE</relationship-type> <update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp> </relationship-template> </relationship-templates>	
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	
	500 Internal server error: An unexpected error occurred processing the request	

3.17.1.2 JSON

Description	Get relationships template by parameters
HTTP method	GET
Resource	/nfvd/template/relationship

Query Parameters	parentArtifactTemplateId	Mandatory
	childArtifactTemplateId	Mandatory
	relationshipType	Optinal
Relevant Headers	Content-type: application/json	
	Accept: application/json	
Request Body	No Needed	
RAW request example	GET http://localhost:8080/nfvd/template/relationship?relationshipType=INCLUDE&parentArtifactTemplateId=8900a545-c2fc-4rz4-b71c-b5e7022lk890&childArtifactTemplateId=8900a545-c2fc-4rz4-b71c-b5e7022lk892 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 07:29:18 GMT
	{"relationship-templates": [{
	"categories": [],
	"status": {
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "DISABLED"
	},
	"creation-timestamp": "2015-04-01T14:23:30.153+0200",
	"update-timestamp": "2015-04-01T14:23:32.273+0200",
	"parent-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
	"child-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
	"relationship-type": "INCLUDE",
	"@uri": "/nfvd/template/relationship/178",
	"@id": "178"
	}]}	

Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.	
	500 Internal server error: An unexpected error occurred processing the request	

3.17.2 Get relationship template by id

3.17.2.1 XML

Description	Get relationship template by id
HTTP method	GET
Resource	/nfvd/template/artifact/{id}
Query Parameters	No Needed
Relevant Headers	Accept: application/xml
Request Body	No Needed
RAW request example	GET http://localhost:8080/nfvd/template/relationship/178 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 627 Date: Mon, 11 May 2015 07:55:36 GMT <relationship-template id="178" uri="/nfvd/template/relationship/178" xmlns="http://www.hp.com/nfvd"> <categories/> <child-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk892</child-artifact-id> <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp> <parent-artifact-id>8900a545-c2fc-4rz4-b71c-b5e7022lk890</parent-artifact-id> <status> <enabled>true</enabled> <label>DISABLED</label> <visible-label>DISABLED</visible-label> </status> <relationship-type>INCLUDE</relationship-type> <update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp> </relationship-template>
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	404 Not found: Relationship template id does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.17.2.2 JSON

Description	Get relationship template by id
HTTP method	GET
Resource	/nfvd/template/relationship/{id}
Query Parameters	No Needed
Relevant Headers	Accept: application/json
Request Body	No Needed
RAW request example	GET http://localhost:8080/nfvd/template/relationship/178 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json

	Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 07:59:58 GMT
	{
	"categories": [],
	"status": {
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "DISABLED"
	},
	"creation-timestamp": "2015-04-01T14:23:30.153+0200",
	"update-timestamp": "2015-04-01T14:23:32.273+0200",
	"parent-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk890",
	"child-artifact-id": "8900a545-c2fc-4rz4-b71c-b5e7022lk892",
	"relationship-type": "INCLUDE",
	"@uri": "/nfvd/template/relationship/178",
	"@id": "178"
	}

Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	404 Not found: Relationship template id does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.17.3 Get tree ids

3.17.3.1 XML

Description	Get tree ids in which the relationship template id belongs to
HTTP method	GET
Resource	/nfvd/template/relationship/{id}/tree
Query Parameters	No Needed
Relevant Headers	Accept: application/xml
Request Body	No Needed
RAW request example	GET http://localhost:8080/nfvd/template/relationship/178/tree HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 199 Date: Mon, 11 May 2015 08:08:09 GMT <uuids xmlns="http://www.hp.com/nfvd"> <uuid>6bdfadd6-bfeb-7776-a685-637f0f596e71</uuid> <uuid>6bdfadd6-bfeb-7777-a685-637f0f596e71</uuid> </uuids>
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	500 Internal server error: An unexpected error occurred processing the request

3.17.3.2 JSON

Description	Get tree ids in which the relationship template id belongs to
HTTP method	GET
Resource	/nfvd/template/relationship/{id}/tree
Query Parameters	No Needed
Relevant Headers	Accept: application/json
Request Body	No Needed
RAW request example	GET http://localhost:8080/nfvd/template/relationship/178/tree HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Mon, 11 May 2015 08:09:32 GMT {"uuids": ["6bdfadd6-bfeb-7776-a685-637f0f596e71", "6bdfadd6-bfeb-7777-a685-637f0f596e71"

	]}
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	500 Internal server error: An unexpected error occurred processing the request

3.17.4 Get attribute by parameters

3.17.4.1 XML

Description	Get attribute in a category of a relationship
HTTP method	GET
Resource	/nfvd/template/relationship/{id}/{cat}/{att}
Query Parameters	No Needed
Relevant Headers	Accept: application/xml
Request Body	No Needed
RAW request example	GET http://localhost:8080/nfvd/template/relationship/184/CAT2/att1 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 246 Date: Mon, 11 May 2015 09:28:22 GMT <attribute xmlns="http://www.hp.com/nfvd"> <label>att1</label> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>Long</type> <unit>GB</unit> </attribute>
Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	404 Not found: Attribute does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.17.4.2 JSON

Description	Get attribute in a category of a relationship
HTTP method	GET
Resource	/nfvd/template/relationship/{id}/{cat}/{att}
Query Parameters	No Needed
Relevant Headers	Accept: application/json
Request Body	No Needed
RAW request example	GET http://localhost:8080/nfvd/template/relationship/184/CAT2/att1 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json

	Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 09:29:07 GMT
	{
	"order": 1,
	"mandatory": true,
	"value": null,
	"description": "att1 description",
	"type": "Long",
	"unit": "GB",
	"label": "att1"
	}

Possible errors	400 Bad request: mandatory parameter is not send or has a bad format.
	404 Not found: Attribute does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.17.5 Create relationship template

3.17.5.1 XML

Description	Creating relationship set
HTTP method	POST
Resource	/nfvd/template/relationship
Query Parameters	No Needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<relationship-templates xmlns="http://www.hp.com/nfvd"> <relationship-template> <categories/> <child-artifact-id>8900a545-2323-4rz4-b71c-b5e7022lk890</child-artifact-id> <creation-timestamp>2015-04-10T10:07:10.880+0200</creation-timestamp> <parent-artifact-id>8900a545-2324-4rz4-b71c-b5e7022lk890</parent-artifact-id> <status> <enabled>true</enabled> <label>OK</label> <visible-label>OK</visible-label> </status> <relationship-type>CONTAINS_TEST_2</relationship-type> <update-timestamp>2015-04-10T10:07:10.880+0200</update-timestamp> <categories> <category> <attributes> <attribute> <label>att1</label> <default-value>att1 default</default-value> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>String</type> <unit>GB</unit> </attribute> </attributes> <label>CAT</label> <order>1</order> </category> <category> <attributes> <attribute> <label>att1</label> <default-value>att1 default</default-value> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>Long</type> <unit>GB</unit> </attribute> </attributes> <label>CAT2</label> <order>2</order> </category> </categories> </relationship-template> </relationship-templates>
RAW request example	POST http://localhost:8080/nfvd/template/relationship HTTP/1.1 Accept-Encoding: gzip,deflate

	Content-Type: application/xml Accept: application/xml Content-Length: 1874 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <relationship-templates xmlns="http://www.hp.com/nfvd"> …… (see request body) …….. </relationship-templates>
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 1167 Date: Mon, 11 May 2015 09:21:58 GMT <relationship-templates xmlns="http://www.hp.com/nfvd"> <relationship-template id="184" uri="/nfvd/template/relationship/184"> <categories> <category> <attributes> <attribute> <label>att1</label> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>Long</type> <unit>GB</unit> </attribute> </attributes> <label>CAT2</label> <order>2</order> </category> <category> <attributes> <attribute> <label>att1</label> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>String</type> <unit>GB</unit> </attribute> </attributes> <label>CAT</label> <order>1</order> </category> </categories> <child-artifact-id>8900a545-2323-4rz4-b71c-b5e7022lk890</child-artifact-id> <creation-timestamp>2015-05-11T11:21:58.766+0200</creation-timestamp> <parent-artifact-id>8900a545-2324-4rz4-b71c-b5e7022lk890</parent-artifact-id> <status> <enabled>true</enabled> <label>OK</label> <visible-label>OK</visible-label> </status> <relationship-type>CONTAINS_TEST_2</relationship-type> <update-timestamp>2015-05-11T11:21:58.767+0200</update-timestamp> </relationship-template> </relationship-templates>

Possible errors	400 Bad request: Request syntax error
	409 Conflict: Relationship template already exists
	500 Internal server error: An unexpected error occurred processing the request

3.17.5.2 JSON

Description	Creating relationship set
HTTP method	POST
Resource	/nfvd/template/artifact
Query Parameters	No Needed
Relevant Headers	Content-type: application/json
	Accept: application/json

Request Body	{"relationship-templates": [
	{
	"categories": [
	{
	"order": 2,
	"attributes": [{
	"order": 1,
	"mandatory": true,
	"value": null,
	"description": "att1 description",
	"type": "Long",
	"unit": "GB",
	"label": "att1"
	}],
	"label": "CAT2"
	},
	{
	"order": 1,
	"attributes": [{
	"order": 1,
	"mandatory": true,
	"value": null,
	"description": "att1 description",
	"type": "String",
	"unit": "GB",
	"label": "att1"
	}],
	"label": "CAT"
	}
	],
	"status": {
	"enabled": true,
	"label": "OK",
	"visible-label": "OK"
	},
	"creation-timestamp": "2015-05-11T11:21:58.766+0200",
	"update-timestamp": "2015-05-11T11:21:58.767+0200",
	"parent-artifact-id": "8900a545-2324-4rz4-b71c-b5e7022lk890",
	"child-artifact-id": "8900a545-2323-4rz4-b71c-b5e7022lk890",

	"relationship-type": "CONTAINS_TEST_2" }]}
RAW request example	Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 1874 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) {"relationship-templates": […… (see request body) ……..]}

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Content-Length: 1167
	Date: Mon, 11 May 2015 09:21:58 GMT
	{"relationship-templates": [
	
	{
	"categories": [
	{
	"order": 2,
	"attributes": [{
	"order": 1,
	"mandatory": true,
	"value": null,
	"description": "att1 description",
	"type": "Long",
	"unit": "GB",
	"label": "att1"
	}],
	"label": "CAT2"
	},
	{
	"order": 1,
	"attributes": [{
	"order": 1,
	"mandatory": true,
	"value": null,
	"description": "att1 description",
	"type": "String",
	"unit": "GB",
	"label": "att1"
	}],
	"label": "CAT"
	}
	],
	"status": {
	"enabled": true,
	"label": "OK",
	"visible-label": "OK"
	},
	"creation-timestamp": "2015-05-11T11:21:58.766+0200",
	"update-timestamp": "2015-05-11T11:21:58.767+0200",
	"parent-artifact-id": "8900a545-2324-4rz4-b71c-b5e7022lk890",
	"child-artifact-id": "8900a545-2323-4rz4-b71c-b5e7022lk890",

	"relationship-type": "CONTAINS_TEST_2", "@uri": "/nfvd/template/relationship/184", "@id": "184" }]}
Possible errors	400 Bad request: Request syntax error
	409 Conflict: Relationship template already exists
	500 Internal server error: An unexpected error occurred processing the request

3.17.6 Create relationship template category

3.17.6.1 XML

Description	Create a category of a relationship
HTTP method	POST
Resource	/nfvd/template/relationship/{id}/{cat}
Query Parameters	No needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<category xmlns="http://www.hp.com/nfvd"> <attributes> <attribute> <label>att1</label> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>String</type> <unit>MB</unit> <value>aaaaaab</value> </attribute> </attributes> <label>CAT2</label> <order>2</order> </category>
RAW request example	POST http://localhost:8080/nfvd/template/relationship/189/CAT2 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 483 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 1165 Date: Mon, 22 Jun 2015 07:29:52 GMT <relationship-template id="189" uri="/nfvd/template/relationship/189" xmlns="http://www.hp.com/nfvd"> <categories> <category> <attributes> <attribute> <label>att1</label> <description>att1 description</description> <mandatory>false</mandatory> <order>1</order> <type>String</type> <unit>MB</unit> <value>aaaaaab</value> </attribute> </attributes> <label>CAT2</label> <order>2</order> </category> … </categories>

	<child-artifact-id>4f59aa14-4d6b-4dc5-aafc-10b3da1f0000</child-artifact-id> <creation-timestamp>2015-04-23T09:47:02.900+0200</creation-timestamp> <parent-artifact-id>4f59aa14-4d6b-4dc5-aafc-10b3da1f1111</parent-artifact-id> <status> <enabled>false</enabled> <label>OK</label> <visible-label>OK</visible-label> </status> <relationship-type>CONTAINS_TEST</relationship-type> <update-timestamp>2015-04-23T09:47:02.900+0200</update-timestamp> </relationship-template>
Possible errors	400 Bad request: Request syntax error
	409 Conflict: Relationship category already exists
	500 Internal server error: An unexpected error occurred processing the request

3.17.6.2 JSON

Description	Create a category of a relationship
HTTP method	POST
Resource	/nfvd/template/relationship/{id}/{cat}
Query Parameters	No needed
Relevant Headers	Content-type: application/json Accept: application/json

Request Body	{
	"order": 2,
	"attributes": [{
	"order": 1,
	"mandatory": false,
	"value": "aaaaaab",
	"description": "att1 description",
	"type": "String",
	"unit": "MB",
	"label": "att1"
	}],
	"label": "CAT2"
	}

RAW request example	POST http://localhost:8080/nfvd/template/relationship/189/CAT2 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 322 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Mon, 22 Jun 2015 07:33:42 GMT {

	"categories": [
	{
	"order": 2,
	"attributes": [{
	"order": 1,
	"mandatory": false,
	"value": "aaaaaab",
	"description": "att1 description",
	"type": "String",
	"unit": "MB",
	"label": "att1"
	}],
	"label": "CAT2"
	},
	{
	"order": 1,
	"attributes": [{
	"order": 1,
	"mandatory": false,
	"value": "aaaaaa",
	"description": "att1 description",
	"type": "Integer",
	"unit": "GB",
	"label": "att1"
	}],
	"label": "CAT"
	}
	],
	"status": {
	"enabled": false,
	"label": "OK",
	"visible-label": "OK"
	},
	"creation-timestamp": "2015-04-23T09:47:02.900+0200",
	"update-timestamp": "2015-04-23T09:47:02.900+0200",
	"parent-artifact-id": "4f59aa14-4d6b-4dc5-aafc-10b3da1f1111",
	"child-artifact-id": "4f59aa14-4d6b-4dc5-aafc-10b3da1f0000",
	"relationship-type": "CONTAINS_TEST",
	"@uri": "/nfvd/template/relationship/189",
	"@id": "189"
	}

Possible errors	400 Bad request: Request syntax error
	409 Conflict: Relationship category already exists
	500 Internal server error: An unexpected error occurred processing the request

3.17.7 Create relationship template attribute

3.17.7.1 XML

Description	Create attribute in a category of a relationship
HTTP method	POST
Resource	/nfvd/template/relationship/{id}/{cat}/{att}

Query Parameters	value	Mandatory
Relevant Headers	Content-type: application/xml	
	Accept: application/xml	
Request Body	No needed	
RAW request example	POST http://localhost:8080/nfvd/template/relationship/184/CAT2/att1?value=value HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 1138 Date: Mon, 11 May 2015 09:56:13 GMT <relationship-template id="184" uri="/nfvd/template/relationship/184" xmlns="http://www.hp.com/nfvd"> <categories> <category> <attributes> <attribute> <label>att1</label> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>Long</type> <unit>GB</unit> <value>value</value> </attribute> </attributes> <label>CAT2</label> <order>2</order> </category> <category> <attributes> <attribute> <label>att1</label> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>String</type> <unit>GB</unit> </attribute> </attributes> <label>CAT</label> <order>1</order> </category> </categories> <child-artifact-id>8900a545-2323-4rz4-b71c-b5e7022lk890</child-artifact-id> <creation-timestamp>2015-05-11T11:21:58.766+0200</creation-timestamp> <parent-artifact-id>8900a545-2324-4rz4-b71c-b5e7022lk890</parent-artifact-id> <status> <enabled>true</enabled> <label>OK</label> <visible-label>OK</visible-label> </status> <relationship-type>CONTAINS_TEST_2</relationship-type> <update-timestamp>2015-05-11T11:21:58.767+0200</update-timestamp>	

	</relationship-template>
Possible errors	400 Bad request: Request syntax error
	409 Conflict: Relationship attribute already exists
	500 Internal server error: An unexpected error occurred processing the request

3.17.7.2 JSON

Description	Create attribute in a category of a relationship	
HTTP method	POST	
Resource	/nfvd/template/relationship/{id}/{cat}/{att}	
Query Parameters	value	Mandatory
Relevant Headers	Content-type: application/json	
	Accept: application/json	
Request Body	No needed	
RAW request example	POST http://localhost:8080/nfvd/template/relationship/184/CAT2/att1?value=value HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 10:01:03 GMT
	{
	"categories": [
	{
	"order": 2,
	"attributes": [{
	"order": 1,
	"mandatory": true,
	"value": "value",
	"description": "att1 description",
	"type": "Long",
	"unit": "GB",
	"label": "att1"
	}],
	"label": "CAT2"
	},
	{
	"order": 1,	

	"attributes": [{ "order": 1, "mandatory": true, "value": null, "description": "att1 description", "type": "String", "unit": "GB", "label": "att1" }], "label": "CAT" }], "status": { "enabled": true, "label": "OK", "visible-label": "OK" }, "creation-timestamp": "2015-05-11T11:21:58.766+0200", "update-timestamp": "2015-05-11T11:21:58.767+0200", "parent-artifact-id": "8900a545-2324-4rz4-b71c-b5e7022lk890", "child-artifact-id": "8900a545-2323-4rz4-b71c-b5e7022lk890", "relationship-type": "CONTAINS_TEST_2", "@uri": "/nfvd/template/relationship/184", "@id": "184" }
Possible errors	400 Bad request: Request syntax error
	409 Conflict: Relationship attribute already exists
	500 Internal server error: An unexpected error occurred processing the request

3.17.8 Download all instance relationships

Download all instance relatioships. Response can be paginated.

3.17.8.1 XML

Description	Returns all template relationships.	
HTTP method	GET	
Resource	/nfvd/template/relationship/download	
Query Parameters	offset	Optional(default=0)
	items	Optional(default=50)
	sort	Optional(default=null) Sorteable fields= id
Relevant Headers	Accept: application/xml	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/template/relationship/download?offset=0&items=2 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 X-Total-Count: 520 X-Link-First: /nfvd/instance/relationship/download?offset=0&items=2 X-Link-Prev: /nfvd/instance/relationship/download?offset=0&items=2 X-Link-Self: /nfvd/instance/relationship/download?offset=0&items=2 X-Link-Next: /nfvd/instance/relationship/download?offset=2&items=2 X-Link-Last: /nfvd/instance/relationship/download?offset=520&items=2 Content-Type: application/xml Content-Length: 1207 Date: Fri, 19 Jun 2015 09:06:45 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <relationship-templates xmlns="http://www.hp.com/nfvd"> <relationship-template id="169" uri="/nfvd/template/relationship/169"> <categories/> <child-artifact-id>2cf6d2f6-1e33-4393-a5af-a6fb240d278a</child-artifact-id> <creation-timestamp>2015-04-10T10:07:03.573+0200</creation-timestamp> <parent-artifact-id>196c8f86-242b-4e1b-b49c-1d18f80c8bc9</parent-artifact-id> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <relationship-type>USES</relationship-type> <update-timestamp>2015-04-10T10:07:03.573+0200</update-timestamp> </relationship-template> <relationship-template id="170" uri="/nfvd/template/relationship/170"> <categories/> <child-artifact-id>2854503b-5d78-49b9-8d50-4010bc409c5e</child-artifact-id> <creation-timestamp>2015-04-10T10:07:03.573+0200</creation-timestamp> <parent-artifact-id>83968569-b00d-4335-8bc3-6ea443cbb45e</parent-artifact-id> <status> <enabled>true</enabled>	

	<label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <relationship-type>INCLUDE</relationship-type> <update-timestamp>2015-04-10T10:07:03.573+0200</update-timestamp> </relationship-template> </relationship-templates>
Possible errors	HTTP 500: In case processing error in server side.

3.17.8.2 JSON

Description	Returns all template relationships.	
HTTP method	GET	
Resource	/nfvd/template/relationship/download	
Query Parameters	offset	Optional(default=0)
	items	Optional(default=50)
	sort	Optional(default=null) Sorteable fields= id
Relevant Headers	Accept: application/json	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/template/relationship/download?offset=0&items=2 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	X-Total-Count: 172
	X-Link-First: /nfvd/template/relationship/download?offset=0&items=2
	X-Link-Prev: /nfvd/template/relationship/download?offset=0&items=2
	X-Link-Self: /nfvd/template/relationship/download?offset=0&items=2
	X-Link-Next: /nfvd/template/relationship/download?offset=2&items=2
	X-Link-Last: /nfvd/template/relationship/download?offset=172&items=2
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 19 Jun 2015 09:34:33 GMT
	
	{"relationship-templates": [
	{
	"categories": [],
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-04-10T10:07:03.573+0200",
	"update-timestamp": "2015-04-10T10:07:03.573+0200",
	"parent-artifact-id": "196c8f86-242b-4e1b-b49c-1d18f80c8bc9",
	"child-artifact-id": "2cf6d2f6-1e33-4393-a5af-a6fb240d278a",
	"relationship-type": "USES",	

	"@uri": "/nfvd/template/relationship/169",
	"@id": "169"
	},
	{
	"categories": [],
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-04-10T10:07:03.573+0200",
	"update-timestamp": "2015-04-10T10:07:03.573+0200",
	"parent-artifact-id": "83968569-b00d-4335-8bc3-6ea443cbb45e",
	"child-artifact-id": "2854503b-5d78-49b9-8d50-4010bc409c5e",
	"relationship-type": "INCLUDE",
	"@uri": "/nfvd/template/relationship/170",
	"@id": "170"
	}
	]}

Possible errors	HTTP 500: In case processing error in server side.

3.17.9 Update relationship template

3.17.9.1 XML

Description	Update rlationship set
HTTP method	PUT
Resource	/nfvd/template/relationship
Query Parameters	No Needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<relationship-templates xmlns="http://www.hp.com/nfvd"> <relationship-template> <categories/> <child-artifact-id>8900a545-2323-4rz4-b71c-b5e7022lk890</child-artifact-id> <creation-timestamp>2015-04-10T10:07:10.880+0200</creation-timestamp> <parent-artifact-id>8900a545-2324-4rz4-b71c-b5e7022lk890</parent-artifact-id> <status> <enabled>true</enabled> <label>OK</label> <visible-label>OK</visible-label> </status> <relationship-type>CONTAINS_TEST_2</relationship-type> <update-timestamp>2015-04-10T10:07:10.880+0200</update-timestamp> <categories> <category> <attributes> <attribute> <label>att1</label> <default-value>att1 default</default-value> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>String</type> <unit>GB</unit> </attribute> </attributes> <label>CAT</label> <order>1</order> </category> <category> <attributes> <attribute> <label>att1</label> <default-value>att1 default</default-value> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>Long</type> <unit>GB</unit> </attribute> </attributes> <label>CAT2</label> <order>2</order> </category> </categories> </relationship-template> </relationship-templates>
RAW request example	PUT http://localhost:8080/nfvd/template/relationship HTTP/1.1 Accept-Encoding: gzip,deflate

	Content-Type: application/xml Accept: application/xml Content-Length: 1874 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <relationship-templates xmlns="http://www.hp.com/nfvd"> …… (see request body) ….. </relationship-templates>
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 1167 Date: Mon, 11 May 2015 10:12:32 GMT <relationship-templates xmlns="http://www.hp.com/nfvd"> <relationship-template id="184" uri="/nfvd/template/relationship/184"> <categories> <category> <attributes> <attribute> <label>att1</label> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>Long</type> <unit>GB</unit> </attribute> </attributes> <label>CAT2</label> <order>2</order> </category> <category> <attributes> <attribute> <label>att1</label> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>String</type> <unit>GB</unit> </attribute> </attributes> <label>CAT</label> <order>1</order> </category> </categories> <child-artifact-id>8900a545-2323-4rz4-b71c-b5e7022lk890</child-artifact-id> <creation-timestamp>2015-04-10T10:07:10.880+0200</creation-timestamp> <parent-artifact-id>8900a545-2324-4rz4-b71c-b5e7022lk890</parent-artifact-id> <status> <enabled>true</enabled> <label>OK</label> <visible-label>OK</visible-label> </status> <relationship-type>CONTAINS_TEST_2</relationship-type> <update-timestamp>2015-05-11T12:12:32.300+0200</update-timestamp> </relationship-template></relationship-templates>

Possible errors	400 Bad request: Request syntax error
	404 Not found: Relationship template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.17.9.2 JSON

Description	Update rlationship set
HTTP method	PUT
Resource	/nfvd/template/relationship
Query Parameters	No Needed
Relevant Headers	Content-type: application/json
	Accept: application/json

Request Body	{"relationship-templates": [
	{
	"categories": [
	{
	"order": 2,
	"attributes": [{
	"order": 1,
	"mandatory": true,
	"value": null,
	"description": "att1 description",
	"type": "Long",
	"unit": "GB",
	"label": "att1"
	}],
	"label": "CAT2"
	},
	{
	"order": 1,
	"attributes": [{
	"order": 1,
	"mandatory": true,
	"value": null,
	"description": "att1 description",
	"type": "String",
	"unit": "GB",
	"label": "att1"
	}],
	"label": "CAT"
	}
	],
	"status": {
	"enabled": true,
	"label": "OK",
	"visible-label": "OK"
	},
	"creation-timestamp": "2015-05-11T11:21:58.766+0200",
	"update-timestamp": "2015-05-11T11:21:58.767+0200",
	"parent-artifact-id": "8900a545-2324-4rz4-b71c-b5e7022lk890",
	"child-artifact-id": "8900a545-2323-4rz4-b71c-b5e7022lk890",

	"relationship-type": "CONTAINS_TEST_2" }]}
RAW request example	PUT http://localhost:8080/nfvd/template/relationship HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 1099 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) {"relationship-templates": […… (see request body) …..]}

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 10:19:06 GMT
	{"relationship-templates": [{
	"categories": [
	{
	"order": 2,
	"attributes": [{
	"order": 1,
	"mandatory": true,
	"value": null,
	"description": "att1 description",
	"type": "Long",
	"unit": "GB",
	"label": "att1"
	}],
	"label": "CAT2"
	},
	{
	"order": 1,
	"attributes": [{
	"order": 1,
	"mandatory": true,
	"value": null,
	"description": "att1 description",
	"type": "String",
	"unit": "GB",
	"label": "att1"
	}],
	"label": "CAT"
	}
	],
	"status": {
	"enabled": true,
	"label": "OK",
	"visible-label": "OK"
	},
	"creation-timestamp": "2015-05-11T11:21:58.766+0200",
	"update-timestamp": "2015-05-11T12:19:06.762+0200",
	"parent-artifact-id": "8900a545-2324-4rz4-b71c-b5e7022lk890",
	"child-artifact-id": "8900a545-2323-4rz4-b71c-b5e7022lk890",
	"relationship-type": "CONTAINS_TEST_2",
	"@uri": "/nfvd/template/relationship/184",

	"@id": "184" }]}
Possible errors	400 Bad request: Request syntax error
	404 Not found: Relationship template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.17.10 Update category of relationship template

3.17.10.1 XML

Description	Update a category of a relationship
HTTP method	PUT
Resource	/nfvd/template/relationship/{id}/{cat}
Query Parameters	No needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<category xmlns="http://www.hp.com/nfvd"> <attributes> <attribute> <label>att1</label> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>String</type> <unit>MB</unit> <value>aaaaaa</value> </attribute> </attributes> <label>CAT2</label> <order>2</order> </category>
RAW request example	PUT http://localhost:8080/nfvd/template/relationship/189/CAT2 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 482 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 1164 Date: Mon, 22 Jun 2015 07:37:02 GMT <relationship-template id="189" uri="/nfvd/template/relationship/189" xmlns="http://www.hp.com/nfvd"> <categories> <category> <attributes> <attribute> <label>att1</label> <description>att1 description</description> <mandatory>false</mandatory> <order>1</order> <type>String</type> <unit>MB</unit> <value>aaaaaa</value> </attribute> </attributes> <label>CAT2</label> <order>2</order> </category> <category> <attributes>

	`<attribute>`
	`<label>att1</label>`
	`<description>att1 description</description>`
	`<mandatory>false</mandatory>`
	`<order>1</order>`
	`<type>Integer</type>`
	`<unit>GB</unit>`
	`<value>aaaaaa</value>`
	`</attribute>`
	`</attributes>`
	`<label>CAT</label>`
	`<order>1</order>`
	`</category>`
	`</categories>`
	`<child-artifact-id>4f59aa14-4d6b-4dc5-aafc-10b3da1f0000</child-artifact-id>`
	`<creation-timestamp>2015-04-23T09:47:02.900+0200</creation-timestamp>`
	`<parent-artifact-id>4f59aa14-4d6b-4dc5-aafc-10b3da1f1111</parent-artifact-id>`
	`<status>`
	`<enabled>false</enabled>`
	`<label>OK</label>`
	`<visible-label>OK</visible-label>`
	`</status>`
	`<relationship-type>CONTAINS_TEST</relationship-type>`
	`<update-timestamp>2015-04-23T09:47:02.900+0200</update-timestamp>`
	`</relationship-template>`

Possible errors	400 Bad request: Request syntax error
	404 Not found: Relationship/Category does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.17.10.2 JSON

Description	Update a category of a relationship
HTTP method	PUT
Resource	/nfvd/template/relationship/{id}/{cat}
Query Parameters	No needed
Relevant Headers	Content-type: application/json
	Accept: application/json

Request Body	{
	"order": 2,
	"attributes": [{
	"order": 1,
	"mandatory": false,
	"value": "aaaaaac",
	"description": "att1 description",
	"type": "String",
	"unit": "MB",
	"label": "att1"
	}],
	"label": "CAT2"
	}

RAW request	PUT http://localhost:8080/nfvd/template/relationship/189/CAT2 HTTP/1.1

example	Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 322 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 22 Jun 2015 07:38:09 GMT
	
	{
	"categories": [
	{
	"order": 2,
	"attributes": [{
	"order": 1,
	"mandatory": false,
	"value": "aaaaaac",
	"description": "att1 description",
	"type": "String",
	"unit": "MB",
	"label": "att1"
	}],
	"label": "CAT2"
	},
	{
	"order": 1,
	"attributes": [{
	"order": 1,
	"mandatory": false,
	"value": "aaaaaa",
	"description": "att1 description",
	"type": "Integer",
	"unit": "GB",
	"label": "att1"
	}],
	"label": "CAT"
	}
	],
	"status": {
	"enabled": false,
	"label": "OK",
	"visible-label": "OK"
	},
	"creation-timestamp": "2015-04-23T09:47:02.900+0200",
	"update-timestamp": "2015-04-23T09:47:02.900+0200",
	"parent-artifact-id": "4f59aa14-4d6b-4dc5-aafc-10b3da1f1111",
	"child-artifact-id": "4f59aa14-4d6b-4dc5-aafc-10b3da1f0000",
	"relationship-type": "CONTAINS_TEST",
	"@uri": "/nfvd/template/relationship/189",
	"@id": "189"
	}

Possible errors	400 Bad request: Request syntax error
	404 Not found: Relationship/Category does not exist

	500 Internal server error: An unexpected error occurred processing the request

3.17.11 Update attribute of relationship template

3.17.11.1 XML

Description	Update attribute in a category of a relationship	
HTTP method	PUT	
Resource	/nfvd/template/relationship/{id}/{cat}/{att}	
Query Parameters	value	Mandatory
Relevant Headers	Content-type: application/xml Accept: application/xml	
Request Body	No needed	
RAW request example	PUT http://localhost:8080/nfvd/template/relationship/184/CAT2/att1?value=333 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 1136 Date: Mon, 11 May 2015 10:26:29 GMT <relationship-template id="184" uri="/nfvd/template/relationship/184" xmlns="http://www.hp.com/nfvd"> <categories> <category> <attributes> <attribute> <label>att1</label> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>Long</type> <unit>GB</unit> <value>333</value> </attribute> </attributes> <label>CAT2</label> <order>2</order> </category> <category> <attributes> <attribute> <label>att1</label> <description>att1 description</description> <mandatory>true</mandatory> <order>1</order> <type>String</type> <unit>GB</unit> </attribute> </attributes> <label>CAT</label> <order>1</order> </category> </categories> <child-artifact-id>8900a545-2323-4rz4-b71c-b5e7022lk890</child-artifact-id>	

	<creation-timestamp>2015-05-11T11:21:58.766+0200</creation-timestamp> <parent-artifact-id>8900a545-2324-4rz4-b71c-b5e7022lk890</parent-artifact-id> <status> <enabled>true</enabled> <label>OK</label> <visible-label>OK</visible-label> </status> <relationship-type>CONTAINS_TEST_2</relationship-type> <update-timestamp>2015-05-11T12:19:06.762+0200</update-timestamp> </relationship-template>
Possible errors	400 Bad request: Request syntax error
	404 Not found: Relationship template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.17.11.2 JSON

Description	Update attribute in a category of a relationship	
HTTP method	PUT	
Resource	/nfvd/template/relationship/{id}/{cat}/{att}	
Query Parameters	value	Mandatory
Relevant Headers	Content-type: application/json	
	Accept: application/json	
Request Body	No needed	
RAW request example	PUT http://localhost:8080/nfvd/template/relationship/184/CAT2/att1?value=334 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 10:39:20 GMT
	{
	"categories": [
	{
	"order": 2,
	"attributes": [{
	"order": 1,
	"mandatory": true,
	"value": "334",
	"description": "att1 description",
	"type": "Long",
	"unit": "GB",
	"label": "att1"
	}],	

	"label": "CAT2"
	},
	{
	"order": 1,
	"attributes": [{
	"order": 1,
	"mandatory": true,
	"value": null,
	"description": "att1 description",
	"type": "String",
	"unit": "GB",
	"label": "att1"
	}],
	"label": "CAT"
	}
	],
	"status": {
	"enabled": true,
	"label": "OK",
	"visible-label": "OK"
	},
	"creation-timestamp": "2015-05-11T11:21:58.766+0200",
	"update-timestamp": "2015-05-11T12:19:06.762+0200",
	"parent-artifact-id": "8900a545-2324-4rz4-b71c-b5e7022lk890",
	"child-artifact-id": "8900a545-2323-4rz4-b71c-b5e7022lk890",
	"relationship-type": "CONTAINS_TEST_2",
	"@uri": "/nfvd/template/relationship/184",
	"@id": "184"
	}

Possible errors	400 Bad request: Request syntax error
	404 Not found: Relationship template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.17.12 Delete relationship template by id

3.17.12.1 XML- JSON

Description	Delete relationship template by id
HTTP method	DELETE
Resource	/nfvd/template/relationship/{id}
Query Parameters	No needed
Relevant Headers	No needed
Request Body	No needed
RAW request example	DELETE http://localhost:8080/nfvd/template/relationship/184 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	
	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 06:59:47 GMT
Possible errors	400 Bad request: Request syntax error
	404 Not found: Relationship template does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.17.13 Delete relationship template by parameters

3.17.13.1 XML- JSON

Description	Delete relationship template by parameters	
HTTP method	DELETE	
Resource	/nfvd/template/relationship	
Query Parameters	parentArtifactTemplateId	Mandatory
	childArtifactTemplateId	Mandatory
	relationshipType	Mandatory
Relevant Headers	No needed	
Request Body	No needed	
RAW request example	DELETE http://localhost:8080/nfvd/template/relationship?relationshipType=CONTAINS_TEST_2&parentArtifactTemplateId=8900a545-2324-4rz4-b71c-b5e7022lk890&childArtifactTemplateId=8900a545-2323-4rz4-b71c-b5e7022lk890 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 06:59:47 GMT	
Possible errors	400 Bad request: Request syntax error	
	404 Not found: Relationship template does not exist	
	500 Internal server error: An unexpected error occurred processing the request	

3.17.14 Delete Category of relationship template

3.17.14.1 XML-JSON

Description	Delete a category of a relationship template
HTTP method	DELETE
Resource	/nfvd/template/relationhip/{id}/{cat}
Query Parameters	No needed
Relevant Headers	No needed
Request Body	No needed
RAW request example	DELETE http://localhost:8080/nfvd/template/relationship/189/CAT2 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Mon, 22 Jun 2015 07:29:42 GMT
Possible errors	400 Bad request: Request syntax error
	404 Not found: Relationship/Category does not exist
	500 Internal server error: An unexpected error occurred processing the request

3.17.15 Delete attribute of relationship template

3.17.15.1 XML-JSON

Description	Delete attribute in a category of a relationship template
HTTP method	DELETE
Resource	/nfvd/template/relationhip/{id}/{cat}/{att}
Query Parameters	No needed
Relevant Headers	No needed
Request Body	No needed
RAW request example	DELETE http://localhost:8080/nfvd/template/relationship/184/CAT2/att1 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 06:59:47 GMT
Possible errors	400 Bad request: Request syntax error
	404 Not found: Relationship template does not exist
	500 Internal server error: An unexpected error occurred processing the request

Chapter 4

Instances

In this chapter you will find all operations related to Instances.

4.1 Get instances from date

4.1.1 XML

Description	Gets instances from a date.	
HTTP method	GET	
Resource	/nfvd/instance/query/elements	
Query Parameters	from	Mandatory.
Relevant Headers	Accept: application/xml	
Request Body		
RAW request example	GET http://localhost:8080/nfvd/instance/query/elements?from=02015-04-10T11%3A05%3A14.073%2B0200 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	<instance xmlns="http://www.hp.com/nfvd"> <artifact-instances> <artifact-instance id="7bdbbce3-1feb-48e2-b4c2-96a6bea21744" uri="/nfvd/instance/artifact/7bdbbce3-1feb-48e2-b4c2-96a6bea21744"> <creation-timestamp>2015-04-10T13:09:38.716+0200</creation-timestamp> <id>7bdbbce3-1feb-48e2-b4c2-96a6bea21744</id> <identifier>VIM:7bdbbce3-1feb-48e2-b4c2-96a6bea21744</identifier> <physical>false</physical> <update-timestamp>2015-04-10T13:09:38.716+0200</update-timestamp> </artifact-instance> […] <artifact-instance id="fabf72d8-b25c-49b0-8203-e922cf082e79" uri="/nfvd/instance/artifact/fabf72d8-b25c-49b0-8203-e922cf082e79"> <creation-timestamp>2015-04-10T13:09:45.329+0200</creation-timestamp> <id>fabf72d8-b25c-49b0-8203-e922cf082e79</id> <identifier>POLICY:fabf72d8-b25c-49b0-8203-e922cf082e79</identifier> <physical>false</physical> <update-timestamp>2015-04-10T13:09:45.329+0200</update-timestamp> </artifact-instance> </artifact-instances> <relationship-instances>	

	`<relationship-instance id="707" uri="/nfvd/instance/relationship/707">`
	`<child-artifact-id>e503f716-23a2-45a9-a6d2-9a45491a102b</child-artifact-id>`
	`<creation-timestamp>2015-04-10T13:09:44.844+0200</creation-timestamp>`
	`<parent-artifact-id>54aced90-5147-4697-9c76-bf95c3ba1b01</parent-artifact-id>`
	`<relationship-type>CONTAINS</relationship-type>`
	`<update-timestamp>2015-04-10T13:09:44.844+0200</update-timestamp>`
	`</relationship-instance>`
	[…]
	`<relationship-instance id="752" uri="/nfvd/instance/relationship/752">`
	`<child-artifact-id>16a94cb8-9841-4bf2-abfa-ce2839a2ad47</child-artifact-id>`
	`<creation-timestamp>2015-04-10T13:09:45.790+0200</creation-timestamp>`
	`<parent-artifact-id>fabf72d8-b25c-49b0-8203-e922cf082e79</parent-artifact-id>`
	`<relationship-type>CONTAINS</relationship-type>`
	`<update-timestamp>2015-04-10T13:09:45.791+0200</update-timestamp>`
	`</relationship-instance>`
	`</relationship-instances>`
	`</instance>`

Possible errors	HTTP 400: mandatory parameter is not sent or has a bad format.
	HTTP 500: In case processing error in server side.

4.1.2 JSON

Description	Finds instances from a date.	
HTTP method	GET	
Resource	/nfvd/instance/query/elements	
Query Parameters	from	Mandatory.
Relevant Headers	Accept: application/json	
Request Body		
RAW request example	GET http://localhost:8080/nfvd/instance/query/elements?from=02015-04-10T11%3A05%3A14.073%2B0200 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	{ "artifact-instances": [{ "id": "7bdbbce3-1feb-48e2-b4c2-96a6bea21744", "identifier": "VIM:7bdbbce3-1feb-48e2-b4c2-96a6bea21744", "physical": false, "artifact-version": null, "creation-timestamp": "2015-04-10T13:09:38.716+0200", "update-timestamp": "2015-04-10T13:09:38.716+0200", "artifact-template-id": null, "@uri": "/nfvd/instance/artifact/7bdbbce3-1feb-48e2-b4c2-96a6bea21744", "@id": "7bdbbce3-1feb-48e2-b4c2-96a6bea21744" }, […]	

```
    {
      "id": "fabf72d8-b25c-49b0-8203-e922cf082e79",
      "identifier": "POLICY:fabf72d8-b25c-49b0-8203-e922cf082e79",
      "physical": false,
      "artifact-version": null,
      "creation-timestamp": "2015-04-10T13:09:45.329+0200",
      "update-timestamp": "2015-04-10T13:09:45.329+0200",
      "artifact-template-id": null,
      "@uri": "/nfvd/instance/artifact/fabf72d8-b25c-49b0-8203-e922cf082e79",
      "@id": "fabf72d8-b25c-49b0-8203-e922cf082e79"
    }
  ],
  "relationship-instances":    [
    {
      "creation-timestamp": "2015-04-10T13:09:44.844+0200",
      "update-timestamp": "2015-04-10T13:09:44.844+0200",
      "parent-artifact-id": "54aced90-5147-4697-9c76-bf95c3ba1b01",
      "child-artifact-id": "e503f716-23a2-45a9-a6d2-9a45491a102b",
      "relationship-type": "CONTAINS",
      "@uri": "/nfvd/instance/relationship/707",
      "@id": "707"
    },
[…]
    {
      "creation-timestamp": "2015-04-10T13:09:45.790+0200",
      "update-timestamp": "2015-04-10T13:09:45.791+0200",
      "parent-artifact-id": "fabf72d8-b25c-49b0-8203-e922cf082e79",
      "child-artifact-id": "16a94cb8-9841-4bf2-abfa-ce2839a2ad47",
      "relationship-type": "CONTAINS",
      "@uri": "/nfvd/instance/relationship/752",
      "@id": "752"
    }
  ]
}
```


Possible errors	HTTP 400: mandatory parameter is not send or has a bad format..
	HTTP 500: In case processing error in server side.

4.2 Gets instances recursively

4.2.1 XML

Description	Gets instance elements recursively	
HTTP method	GET	
Resource	/nfvd/instance/query/elements/recusive	
Query Parameters	artifactInstanceId	Mandatory.
Relevant Headers	Accept: application/xml	
Request Body		
RAW request example	GET http://localhost:8080/nfvd/instance/query/elements/recursive?artifactInstanceId=5941b58d-33a4-4904-a6ea-9a1ffc81c500 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	& <instance xmlns="http://www.hp.com/nfvd"> <artifact-instances> <artifact-instance id="5941b58d-33a4-4904-a6ea-9a1ffc81c500" uri="/nfvd/instance/artifact/5941b58d-33a4-4904-a6ea-9a1ffc81c500"> <artifact-definition> <category>HELION</category> <family>VIM</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> <category> <attributes> <attribute> <label>Login</label> <mandatory>true</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> […] </attributes> <label>CREDENTIALS</label> <order>3</order> </category> […] </categories> <creation-timestamp>2015-04-10T13:09:38.716+0200</creation-timestamp> <id>5941b58d-33a4-4904-a6ea-9a1ffc81c500</id> <identifier>VIM:5941b58d-33a4-4904-a6ea-9a1ffc81c500</identifier> <physical>false</physical> <update-timestamp>2015-04-10T13:09:38.716+0200</update-timestamp> </artifact-instance> […] </artifact-instances>	

	<relationship-instances/> </instance>
Possible errors	HTTP 400: mandatory parameter is not send or has a bad format.
	HTTP 500: In case processing error in server side.

4.2.2 JSON

Description	Gets instance elements recursively	
HTTP method	GET	
Resource	/nfvd/instance/query/elements/recursive	
Query Parameters	artifactInstanceId	Mandatory.
Relevant Headers		
	Accept: application/json	
Request Body		
RAW request example	GET http://localhost:8080/nfvd/instance/query/elements/recursive?artifactInstanceId=5941b58d-33a4-4904-a6ea-9a1ffc81c500 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	{
	"artifact-instances": [{
	"id": "5941b58d-33a4-4904-a6ea-9a1ffc81c500",
	"identifier": "VIM:5941b58d-33a4-4904-a6ea-9a1ffc81c500",
	"physical": false,
	"categories": [
	{
	"order": 3,
	"attributes": [
	{
	"order": 1,
	"mandatory": true,
	"value": null,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Login"
	},
	[…]
	],
	"label": "CREDENTIALS"
	},
	[…]	

```
    ],
    "artifact-definition":      {
      "family": "VIM",
      "category": "HELION",
      "group": null,
      "type": null,
      "subtype": null,
      "version": null
    },
    "artifact-version": null,
    "status":      {
      "enabled": true,
      "label": "ENABLED",
      "visible-label": "ENABLED"
    },
    "creation-timestamp": "2015-04-10T13:09:38.716+0200",
    "update-timestamp": "2015-04-10T13:09:38.716+0200",
    "artifact-template-id": null,
    "@uri": "/nfvd/instance/artifact/5941b58d-33a4-4904-a6ea-9a1ffc81c500",
    "@id": "5941b58d-33a4-4904-a6ea-9a1ffc81c500"
  }],
  "relationship-instances": []
}
```


Possible errors	HTTP 400: mandatory parameter is not send or has a bad format.
	HTTP 500: In case processing error in server side.

4.3 Get instance tree from id

4.3.1 XML

Description	Gets instance elements tree from id
HTTP method	GET
Resource	/nfvd/instance/tree/{id}
Query Parameters	Not needed.
Relevant Headers	Accept: application/xml
Request Body	
RAW request example	GET http://localhost:8080/nfvd/instance/tree/o990c511-72ab-4450-6852-fe1b182fd130 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	& <instance id="o990c511-72ab-4450-6852-fe1b182fd130" uri="/nfvd/instance/o990c511-72ab-4450-6852-fe1b182fd130" xmlns="http://www.hp.com/nfvd"> <artifact-instances> <artifact-instance id="11j99903-c2fc-4450-6852-b5e7022lk892" uri="/nfvd/instance/artifact/11j99903-c2fc-4450-6852-b5e7022lk892"> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_MACHINE</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> <category> <attributes> <attribute> <label>Operation</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> […] </attributes> <label>LAST_OPERATION</label> <order>5</order> </category> […] </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>11j99903-c2fc-4450-6852-b5e7022lk892</id> <identifier>VIRTUAL_MACHINE-4450-6852</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-instance> […] </artifact-instances>

	<description>test description 4450-6852</description> <id>o990c511-72ab-4450-6852-fe1b182fd130</id> <language-code>en_EN</language-code> <name>test-4450-6852</name> <relationship-instances> <relationship-instance id="60" uri="/nfvd/instance/relationship/60"> <categories/> <child-artifact-id>11j99903-c2fc-4450-6852-b5e7022lk892</child-artifact-id> <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp> <parent-artifact-id>11j99903-c2fc-4450-6852-b5e7022lk890</parent-artifact-id> <status> <enabled>true</enabled> <label>DISABLED</label> <visible-label>DISABLED</visible-label> </status> <relationship-type>INCLUDE</relationship-type> <update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp> </relationship-instance> […] </relationship-instances> <type>VNF</type> </instance>
Possible errors	HTTP 400: mandatory parameter is not send or has a bad format.
	HTTP 500: In case processing error in server side.

4.3.2 JSON

Description	Gets instance elements tree from id
HTTP method	GET
Resource	/nfvd/instance/tree/{id}
Query Parameters	Not needed.
Relevant Headers	Accept: application/json
Request Body	
RAW request example	GET http://localhost:8080/nfvd/instance/tree/o990c511-72ab-4450-6852-fe1b182fd130 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

RAW Success response example	{
	"id": "o990c511-72ab-4450-6852-fe1b182fd130",
	"name": "test-4450-6852",
	"type": "VNF",
	"description": "test description 4450-6852",
	"language-code": "en_EN",
	"relationship-instances": [
	{
	"categories": [],
	"status": {
	"enabled": true,

```
          "label": "DISABLED",
          "visible-label": "DISABLED"
        },
        "creation-timestamp": "2015-04-01T14:23:30.153+0200",
        "update-timestamp": "2015-04-01T14:23:32.273+0200",
        "parent-artifact-id": "11j99903-c2fc-4450-6852-b5e7022lk890",
        "child-artifact-id": "11j99903-c2fc-4450-6852-b5e7022lk892",
        "relationship-type": "INCLUDE",
        "@uri": "/nfvd/instance/relationship/60",
        "@id": "60"
      },
      […]
    ],
    "artifact-instances":    [
          {
        "id": "11j99903-c2fc-4450-6852-b5e7022lk892",
        "identifier": "VIRTUAL_MACHINE-4450-6852",
        "physical": false,
        "categories": [
            {
            "order": 5,
            "attributes": [
              {
                "order": 1,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Operation"
              },
              […]
            ],
            "label": "LAST_OPERATION"
          },
         […]
        ],
        "artifact-definition": {
          "family": "VIRTUAL_MACHINE",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "artifact-version": null,
        "status": {
          "enabled": true,
          "label": "ENABLED",
          "visible-label": "ENABLED"
        },
        "creation-timestamp": "2015-01-14T14:12:25.000+0100",
        "update-timestamp": "2015-01-14T14:12:35.000+0100",
        "artifact-template-id": null,
        "@uri": "/nfvd/instance/artifact/11j99903-c2fc-4450-6852-b5e7022lk892",
        "@id": "11j99903-c2fc-4450-6852-b5e7022lk892"
      },
      […]
    ],
    "@uri": "/nfvd/instance/o990c511-72ab-4450-6852-fe1b182fd130",
    "@id": "o990c511-72ab-4450-6852-fe1b182fd130"
}
```

Possible errors	HTTP 400: mandatory parameter is not send or has a bad format.
	HTTP 500: In case processing error in server side.

4.4 Get instance uuid list

4.4.1 XML

Description	Returns a instance uuid list based on name and/or type	
HTTP method	GET	
Resource	/nfvd/instance/tree	
Query Parameters	name	Optional
	type	Optional
Relevant Headers	Accept: application/xml	
Request Body		
RAW request example	GET http://localhost:8080/nfvd/instance/tree?name=test-4450-6852&type=VNF HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	<uuids xmlns="http://www.hp.com/nfvd"> <uuid>o990c511-72ab-4450-6852-fe1b182fd130</uuid> </uuids>	
Possible errors	HTTP 400: mandatory parameter is not send or has a bad format.	
	HTTP 500: In case processing error in server side.	

4.4.2 JSON

Description	Returns a instance uuid list based on name and/or type	
HTTP method	GET	
Resource	/nfvd/instance/tree	
Query Parameters	name	Optional
	type	Optional
Relevant Headers	Accept: application/json	
Request Body		
RAW request example	GET http://localhost:8080/nfvd/instance/tree?name=test-4450-6852&type=VNF HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	
	{"uuids": ["o990c511-72ab-4450-6852-fe1b182fd130"]}
Possible errors	HTTP 400: mandatory parameter is not send or has a bad format.
	HTTP 500: In case processing error in server side.

4.5 Download tree

4.5.1 XML

Description	Download tree	
HTTP method	GET	
Resource	/nfvd/instance/download	
Query Parameters	tree	Mandatory. Multiple.
Relevant Headers	Accept: application/xml	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/instance/download?tree=o990c511-72ab-9996-7065-fe1b182fd130 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Transfer-Encoding: chunked Date: Mon, 15 Jun 2015 11:19:16 GMT <instances xmlns="http://www.hp.com/nfvd"> <elements> <artifact-instances> <artifact-instance id="11j99903-c2fc-9996-7065-b5e7022lk890" uri="/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk890"> <artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>11j99903-c2fc-9996-7065-b5e7022lk890</id> <identifier>VNF_COMPONENT-9996-7065</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-instance> <artifact-instance id="11j99903-c2fc-9996-7065-b5e7022lk892" uri="/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk892"> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_MACHINE</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label>	

```
            <visible-label>ENABLED</visible-label>
          </status>
          <categories>

          </categories>
          <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
          <id>11j99903-c2fc-9996-7065-b5e7022lk892</id>
          <identifier>VIRTUAL_MACHINE-9996-7065</identifier>
          <physical>false</physical>
          <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
        </artifact-instance>
        <artifact-instance id="11j99903-c2fc-9996-7065-b5e7022lk89h" uri="/nfvd/instance/artifact/11j99903-c2fc-
9996-7065-b5e7022lk89h">
          <artifact-definition>
            <category>GENERIC</category>
            <family>VNF</family>
          </artifact-definition>
          <status>
            <enabled>true</enabled>
            <label>ACTIVE</label>
            <visible-label>ACTIVE</visible-label>
          </status>
          <categories>

          </categories>
          <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
          <id>11j99903-c2fc-9996-7065-b5e7022lk89h</id>
          <identifier>VNF-9996-7065</identifier>
          <physical>false</physical>
          <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
        </artifact-instance>
      </artifact-instances>
      <relationship-instances>
        <relationship-instance id="609" uri="/nfvd/instance/relationship/609">
          <categories/>
          <child-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk892</child-artifact-id>
          <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp>
          <parent-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk890</parent-artifact-id>
          <status>
            <enabled>true</enabled>
            <label>DISABLED</label>
            <visible-label>DISABLED</visible-label>
          </status>
          <relationship-type>INCLUDE</relationship-type>
          <update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp>
        </relationship-instance>
        <relationship-instance id="610" uri="/nfvd/instance/relationship/610">
          <categories/>
          <child-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk890</child-artifact-id>
          <creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp>
          <parent-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk89h</parent-artifact-id>
          <status>
            <enabled>true</enabled>
            <label>ENABLED</label>
            <visible-label>ENABLED</visible-label>
          </status>
          <relationship-type>INCLUDE</relationship-type>
          <update-timestamp>2015-04-01T14:29:35.665+0200</update-timestamp>
        </relationship-instance>
      </relationship-instances>
    </elements>
    <instance-trees>
      <instance id="o990c511-72ab-9996-7065-fe1b182fd130" uri="/nfvd/instance/o990c511-72ab-9996-7065-
```

```
fe1b182fd130">
      <artifact-instances>
        <artifact-instance id="11j99903-c2fc-9996-7065-b5e7022lk892" uri="/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk892">
          <id>11j99903-c2fc-9996-7065-b5e7022lk892</id>
        </artifact-instance>
        <artifact-instance id="11j99903-c2fc-9996-7065-b5e7022lk890" uri="/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk890">
          <id>11j99903-c2fc-9996-7065-b5e7022lk890</id>
        </artifact-instance>
        <artifact-instance id="11j99903-c2fc-9996-7065-b5e7022lk89h" uri="/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk89h">
          <id>11j99903-c2fc-9996-7065-b5e7022lk89h</id>
        </artifact-instance>
      </artifact-instances>
      <description>test description 9996-7065</description>
      <id>o990c511-72ab-9996-7065-fe1b182fd130</id>
      <language-code>en_EN</language-code>
      <name>test-9996-7065</name>
      <relationship-instances>
        <relationship-instance id="610" uri="/nfvd/instance/relationship/610">
          <child-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk890</child-artifact-id>
          <parent-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk89h</parent-artifact-id>
          <relationship-type>INCLUDE</relationship-type>
        </relationship-instance>
        <relationship-instance id="609" uri="/nfvd/instance/relationship/609">
          <child-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk892</child-artifact-id>
          <parent-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk890</parent-artifact-id>
          <relationship-type>INCLUDE</relationship-type>
        </relationship-instance>
      </relationship-instances>
      <type>VNF</type>
    </instance>
  </instance-trees>
</instances>
```


Possible errors	400 Bad request: Request syntax error
	404 Not found:
	500 Internal server error: An unexpected error occurred processing the request

4.5.2 JSON

Description	Download tree	
HTTP method	GET	
Resource	/nfvd/instance/download	
Query Parameters	tree	Mandatory. Multiple.
Relevant Headers	Accept: application/json	
Request Body	Not needed	

RAW request example	GET http://localhost:8080/nfvd/instance/download?tree=o990c511-72ab-9996-7065-fe1b182fd130 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 15 Jun 2015 12:52:13 GMT
	
	{
	"artifact-instances": [
	{
	"id": "11j99903-c2fc-9996-7065-b5e7022lk890",
	"identifier": "VNF_COMPONENT-9996-7065",
	"physical": false,
	"categories": [],
	"artifact-definition": {
	"family": "VNF_COMPONENT",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"@uri": "/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk890",
	"@id": "11j99903-c2fc-9996-7065-b5e7022lk890"
	},
	{
	"id": "11j99903-c2fc-9996-7065-b5e7022lk892",
	"identifier": "VIRTUAL_MACHINE-9996-7065",
	"physical": false,
	"categories": [],
	"artifact-definition": {
	"family": "VIRTUAL_MACHINE",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"@uri": "/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk892",
	"@id": "11j99903-c2fc-9996-7065-b5e7022lk892"
	},
	{

```
      "id": "11j99903-c2fc-9996-7065-b5e7022lk89h",
      "identifier": "VNF-9996-7065",
      "physical": false,
      "categories":         [],
      "artifact-definition":         {
        "family": "VNF",
        "category": "GENERIC",
        "group": null,
        "type": null,
        "subtype": null,
        "version": null
      },
      "status":         {
        "enabled": true,
        "label": "ACTIVE",
        "visible-label": "ACTIVE"
      },
      "creation-timestamp": "2015-01-14T14:12:25.000+0100",
      "update-timestamp": "2015-01-14T14:12:35.000+0100",
      "@uri": "/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk89h",
      "@id": "11j99903-c2fc-9996-7065-b5e7022lk89h"
    }
  ],
  "relationship-instances":    [
        {
      "categories": [],
      "status":         {
        "enabled": true,
        "label": "DISABLED",
        "visible-label": "DISABLED"
      },
      "creation-timestamp": "2015-04-01T14:23:30.153+0200",
      "update-timestamp": "2015-04-01T14:23:32.273+0200",
      "parent-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk890",
      "child-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk892",
      "relationship-type": "INCLUDE",
      "@uri": "/nfvd/instance/relationship/609",
      "@id": "609"
    },
        {
      "categories": [],
      "status":         {
        "enabled": true,
        "label": "ENABLED",
        "visible-label": "ENABLED"
      },
      "creation-timestamp": "2015-04-01T14:29:32.318+0200",
      "update-timestamp": "2015-04-01T14:29:35.665+0200",
      "parent-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk89h",
      "child-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk890",
      "relationship-type": "INCLUDE",
      "@uri": "/nfvd/instance/relationship/610",
      "@id": "610"
    }
  ],
  "instance-trees": [    {
    "id": "o990c511-72ab-9996-7065-fe1b182fd130",
    "name": "test-9996-7065",
    "type": "VNF",
    "description": "test description 9996-7065",
    "language-code": "en_EN",
    "artifact-instances":       [
              {
```

	"id": "11j99903-c2fc-9996-7065-b5e7022lk892",
	"@uri": "/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk892",
	"@id": "11j99903-c2fc-9996-7065-b5e7022lk892"
	},
	{
	"id": "11j99903-c2fc-9996-7065-b5e7022lk890",
	"@uri": "/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk890",
	"@id": "11j99903-c2fc-9996-7065-b5e7022lk890"
	},
	{
	"id": "11j99903-c2fc-9996-7065-b5e7022lk89h",
	"@uri": "/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk89h",
	"@id": "11j99903-c2fc-9996-7065-b5e7022lk89h"
	}
	],
	"relationship-instances": [
	{
	"parent-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk89h",
	"child-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk890",
	"relationship-type": "INCLUDE",
	"@uri": "/nfvd/instance/relationship/610",
	"@id": "610"
	},
	{
	"parent-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk890",
	"child-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk892",
	"relationship-type": "INCLUDE",
	"@uri": "/nfvd/instance/relationship/609",
	"@id": "609"
	}
	],
	"@uri": "/nfvd/instance/o990c511-72ab-9996-7065-fe1b182fd130",
	"@id": "o990c511-72ab-9996-7065-fe1b182fd130"
	}]
	}

Possible errors	400 Bad request: Request syntax error
	404 Not found:
	500 Internal server error: An unexpected error occurred processing the request

4.6 Create a new Instance

4.6.1 XML

Description	Creates a new instance
HTTP method	POST
Resource	/nfvd/instance
Query Parameters	Not needed.
Relevant Headers	Accept: application/xml Content-Type: application/xml

Request Body	`<instance xmlns="http://www.hp.com/nfvd">`
	`  <artifact-instances>`
	`  <artifact-instance>`
	`  <artifact-definition>`
	`  <category>GENERIC</category>`
	`  <family>VIRTUAL_MACHINE</family>`
	`  </artifact-definition>`
	`  <status>`
	`  <enabled>true</enabled>`
	`  <label>ENABLED</label>`
	`  <visible-label>ENABLED</visible-label>`
	`  </status>`
	`  <categories>`
	`  <category>`
	`  <attributes>`
	`  <attribute>`
	`  <label>Operation</label>`
	`  <mandatory>false</mandatory>`
	`  <order>1</order>`
	`  <type>TEXT</type>`
	`  <unit>TEXT</unit>`
	`  </attribute>`
	`  <attribute>`
	`  <label>Result_code</label>`
	`  <mandatory>false</mandatory>`
	`  <order>2</order>`
	`  <type>TEXT</type>`
	`  <unit>TEXT</unit>`
	`  </attribute>`
	`  <attribute>`
	`  <label>Result_description</label>`
	`  <mandatory>false</mandatory>`
	`  <order>3</order>`
	`  <type>TEXT</type>`
	`  <unit>TEXT</unit>`
	`  </attribute>`
	`  </attributes>`
	`  <label>LAST_OPERATION</label>`
	`  <order>5</order>`
	`  </category>`
	`  <category>`
	`  <attributes>`
	`  <attribute>`
	`  <label>hostname</label>`
	`  <mandatory>false</mandatory>`
	`  <order>4</order>`
	`  <type>TEXT</type>`
	`  <unit>TEXT</unit>`

```
        </attribute>
        <attribute>
          <label>Management_access</label>
          <mandatory>false</mandatory>
          <order>5</order>
          <type>TEXT</type>
          <unit>TEXT</unit>
        </attribute>
        <attribute>
          <label>Image</label>
          <mandatory>false</mandatory>
          <order>6</order>
          <type>TEXT</type>
          <unit>TEXT</unit>
        </attribute>
        <attribute>
          <label>Name</label>
          <mandatory>false</mandatory>
          <order>1</order>
          <type>TEXT</type>
          <unit>TEXT</unit>
        </attribute>
        <attribute>
          <label>Description</label>
          <mandatory>false</mandatory>
          <order>3</order>
          <type>TEXT</type>
          <unit>TEXT</unit>
        </attribute>
        <attribute>
          <label>Type</label>
          <mandatory>false</mandatory>
          <order>2</order>
          <type>TEXT</type>
          <unit>TEXT</unit>
        </attribute>
      </attributes>
      <label>GENERAL</label>
      <order>1</order>
    </category>
    <category>
      <attributes>
        <attribute>
          <label>HOSTNAME</label>
          <mandatory>false</mandatory>
          <order>3</order>
          <type>TEXT</type>
          <unit>TEXT</unit>
        </attribute>
        <attribute>
          <label>NAME</label>
          <mandatory>false</mandatory>
          <order>2</order>
          <type>TEXT</type>
          <unit>TEXT</unit>
        </attribute>
        <attribute>
          <label>ID</label>
          <mandatory>false</mandatory>
          <order>1</order>
          <type>TEXT</type>
          <unit>TEXT</unit>
        </attribute>
```

```
    </attributes>
    <label>HYPERVISOR</label>
    <order>4</order>
  </category>
  <category>
    <attributes>
      <attribute>
        <label>ID</label>
        <mandatory>false</mandatory>
        <order>1</order>
        <type>TEXT</type>
        <unit>TEXT</unit>
      </attribute>
      <attribute>
        <label>NAME</label>
        <mandatory>false</mandatory>
        <order>2</order>
        <type>TEXT</type>
        <unit>TEXT</unit>
      </attribute>
    </attributes>
    <label>VIM</label>
    <order>3</order>
  </category>
  <category>
    <attributes>
      <attribute>
        <label>LifeCycle_State_Date</label>
        <mandatory>false</mandatory>
        <order>5</order>
        <type>Date</type>
        <unit>Date</unit>
      </attribute>
      <attribute>
        <label>Operational_Status</label>
        <mandatory>false</mandatory>
        <order>1</order>
        <type>TEXT</type>
        <unit>TEXT</unit>
      </attribute>
      <attribute>
        <label>LifeCycle_State</label>
        <mandatory>false</mandatory>
        <order>4</order>
        <type>TEXT</type>
        <unit>TEXT</unit>
      </attribute>
      <attribute>
        <label>Source</label>
        <mandatory>true</mandatory>
        <order>3</order>
        <type>TEXT</type>
        <unit>TEXT</unit>
        <value>test</value>
      </attribute>
      <attribute>
        <label>Operational_Status_Date</label>
        <mandatory>false</mandatory>
        <order>2</order>
        <type>Date</type>
        <unit>Date</unit>
      </attribute>
      <attribute>
```

```
            <label>additionalText</label>
            <mandatory>false</mandatory>
            <order>6</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>STATUS</label>
        <order>2</order>
      </category>
    </categories>
    <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
    <id>33j99903-c2fc-4450-6852-b5e7022lk892</id>
    <identifier>VIRTUAL_MACHINE-4450-6853</identifier>
    <physical>false</physical>
    <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
  </artifact-instance>
  <artifact-instance>
    <artifact-definition>
      <category>GENERIC</category>
      <family>VNF</family>
    </artifact-definition>
    <status>
      <enabled>true</enabled>
      <label>ACTIVE</label>
      <visible-label>ACTIVE</visible-label>
    </status>
    <categories>
      <category>
        <attributes>
          <attribute>
            <label>Operation</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Result_description</label>
            <mandatory>false</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Result_code</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>LAST_OPERATION</label>
        <order>4</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>Description</label>
            <mandatory>false</mandatory>
            <order>4</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
```

```
            </attribute>
            <attribute>
              <label>Name</label>
              <mandatory>false</mandatory>
              <order>1</order>
              <type>TEXT</type>
              <unit>TEXT</unit>
            </attribute>
            <attribute>
              <label>Vendor</label>
              <mandatory>false</mandatory>
              <order>3</order>
              <type>TEXT</type>
              <unit>TEXT</unit>
            </attribute>
            <attribute>
              <label>Type</label>
              <mandatory>false</mandatory>
              <order>2</order>
              <type>TEXT</type>
              <unit>TEXT</unit>
            </attribute>
            <attribute>
              <label>AssignmentPolicyID</label>
              <mandatory>false</mandatory>
              <order>5</order>
              <type>TEXT</type>
              <unit>TEXT</unit>
            </attribute>
          </attributes>
          <label>GENERAL</label>
          <order>1</order>
        </category>
        <category>
          <attributes>
            <attribute>
              <label>LifeCycle_State</label>
              <mandatory>false</mandatory>
              <order>4</order>
              <type>TEXT</type>
              <unit>TEXT</unit>
            </attribute>
            <attribute>
              <label>Operational_Status</label>
              <mandatory>false</mandatory>
              <order>1</order>
              <type>TEXT</type>
              <unit>TEXT</unit>
            </attribute>
            <attribute>
              <label>LifeCycle_State_Date</label>
              <mandatory>false</mandatory>
              <order>5</order>
              <type>Date</type>
              <unit>Date</unit>
            </attribute>
            <attribute>
              <label>Source</label>
              <mandatory>true</mandatory>
              <order>3</order>
              <type>TEXT</type>
              <unit>TEXT</unit>
              <value>test</value>
```

```
            </attribute>
            <attribute>
              <label>additionalText</label>
              <mandatory>false</mandatory>
              <order>6</order>
              <type>TEXT</type>
              <unit>TEXT</unit>
            </attribute>
            <attribute>
              <label>Operational_Status_Date</label>
              <mandatory>false</mandatory>
              <order>2</order>
              <type>Date</type>
              <unit>Date</unit>
            </attribute>
          </attributes>
          <label>STATUS</label>
          <order>2</order>
        </category>
        <category>
          <attributes>
            <attribute>
              <label>ResourceTreeID</label>
              <mandatory>false</mandatory>
              <order>1</order>
              <type>TEXT</type>
              <unit>TEXT</unit>
            </attribute>
            <attribute>
              <label>RelationshipTreeID</label>
              <mandatory>false</mandatory>
              <order>1</order>
              <type>TEXT</type>
              <unit>TEXT</unit>
            </attribute>
          </attributes>
          <label>ORIGIN_CREATION</label>
          <order>3</order>
        </category>
      </categories>
      <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
      <id>33j99903-c2fc-4450-6852-b5e7022lk89h</id>
      <identifier>VNF-4450-6853</identifier>
      <physical>false</physical>
      <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
    </artifact-instance>
    <artifact-instance>
      <artifact-definition>
        <category>GENERIC</category>
        <family>VNF_COMPONENT</family>
      </artifact-definition>
      <status>
        <enabled>true</enabled>
        <label>ACTIVE</label>
        <visible-label>ACTIVE</visible-label>
      </status>
      <categories>
        <category>
          <attributes>
            <attribute>
              <label>Result_code</label>
              <mandatory>false</mandatory>
              <order>2</order>
```

```
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Result_description</label>
            <mandatory>false</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Operation</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>LAST_OPERATION</label>
        <order>3</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>Name</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Descripton</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>GENERAL</label>
        <order>1</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>Operational_Status_Date</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>Date</type>
            <unit>Date</unit>
          </attribute>
          <attribute>
            <label>Source</label>
            <mandatory>true</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
            <value>test12222</value>
          </attribute>
          <attribute>
            <label>LifeCycle_State_Date</label>
            <mandatory>false</mandatory>
            <order>5</order>
            <type>Date</type>
```

```
            <unit>Date</unit>
          </attribute>
          <attribute>
            <label>Operational_Status</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>additionalText</label>
            <mandatory>false</mandatory>
            <order>6</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>LifeCycle_State</label>
            <mandatory>false</mandatory>
            <order>4</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>STATUS</label>
        <order>2</order>
      </category>
    </categories>
    <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
    <id>33j99903-c2fc-4450-6852-b5e7022lk890</id>
    <identifier>VNF_COMPONENT-4450-6853</identifier>
    <physical>false</physical>
    <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
  </artifact-instance>
</artifact-instances>
<description>test description 4450-6852</description>
<id>o990c511-72ab-4450-6852-fe1b182fd130</id>
<language-code>en_EN</language-code>
<name>test-4450-6852</name>
<relationship-instances>
  <relationship-instance>
    <categories/>
    <child-artifact-id>33j99903-c2fc-4450-6852-b5e7022lk892</child-artifact-id>
    <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp>
    <parent-artifact-id>33j99903-c2fc-4450-6852-b5e7022lk890</parent-artifact-id>
    <status>
      <enabled>true</enabled>
      <label>DISABLED</label>
      <visible-label>DISABLED</visible-label>
    </status>
    <relationship-type>INCLUDE</relationship-type>
    <update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp>
  </relationship-instance>
  <relationship-instance>
    <categories/>
    <child-artifact-id>33j99903-c2fc-4450-6852-b5e7022lk890</child-artifact-id>
    <creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp>
    <parent-artifact-id>33j99903-c2fc-4450-6852-b5e7022lk89h</parent-artifact-id>
    <status>
      <enabled>true</enabled>
      <label>ENABLED</label>
      <visible-label>ENABLED</visible-label>
    </status>
```

	<relationship-type>INCLUDE</relationship-type> <update-timestamp>2015-04-01T14:29:35.665+0200</update-timestamp> </relationship-instance> </relationship-instances> <type>VNF</type> </instance>
RAW request example	POST http://localhost:8080/nfvd/instance HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Content-Length: 18915 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) SEE REQUEST-BODY
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Transfer-Encoding: chunked Date: Thu, 07 May 2015 15:03:54 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?><instance id="null" uri="/nfvd/instance/null" xmlns="http://www.hp.com/nfvd"> <artifact-instances> <artifact-instance id="33j99903-c2fc-4450-6852-b5e7022lk89h" uri="/nfvd/instance/artifact/33j99903-c2fc-4450-6852-b5e7022lk89h"> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> <category> <attributes> <attribute> <label>Operation</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Result_code</label> <mandatory>false</mandatory> <order>2</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Result_description</label> <mandatory>false</mandatory> <order>3</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> </attributes> <label>LAST_OPERATION</label>

```
    <order>4</order>
  </category>
  <category>
    <attributes>
      <attribute>
        <label>Vendor</label>
        <mandatory>false</mandatory>
        <order>3</order>
        <type>TEXT</type>
        <unit>TEXT</unit>
      </attribute>
      <attribute>
        <label>Name</label>
        <mandatory>false</mandatory>
        <order>1</order>
        <type>TEXT</type>
        <unit>TEXT</unit>
      </attribute>
      <attribute>
        <label>Description</label>
        <mandatory>false</mandatory>
        <order>4</order>
        <type>TEXT</type>
        <unit>TEXT</unit>
      </attribute>
      <attribute>
        <label>AssignmentPolicyID</label>
        <mandatory>false</mandatory>
        <order>5</order>
        <type>TEXT</type>
        <unit>TEXT</unit>
      </attribute>
      <attribute>
        <label>Type</label>
        <mandatory>false</mandatory>
        <order>2</order>
        <type>TEXT</type>
        <unit>TEXT</unit>
      </attribute>
    </attributes>
    <label>GENERAL</label>
    <order>1</order>
  </category>
  <category>
    <attributes>
      <attribute>
        <label>Operational_Status</label>
        <mandatory>false</mandatory>
        <order>1</order>
        <type>TEXT</type>
        <unit>TEXT</unit>
      </attribute>
      <attribute>
        <label>LifeCycle_State_Date</label>
        <mandatory>false</mandatory>
        <order>5</order>
        <type>Date</type>
        <unit>Date</unit>
      </attribute>
      <attribute>
        <label>LifeCycle_State</label>
        <mandatory>false</mandatory>
        <order>4</order>
```

```
                <type>TEXT</type>
                <unit>TEXT</unit>
              </attribute>
              <attribute>
                <label>Operational_Status_Date</label>
                <mandatory>false</mandatory>
                <order>2</order>
                <type>Date</type>
                <unit>Date</unit>
              </attribute>
              <attribute>
                <label>additionalText</label>
                <mandatory>false</mandatory>
                <order>6</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
              </attribute>
              <attribute>
                <label>Source</label>
                <mandatory>true</mandatory>
                <order>3</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
                <value>test</value>
              </attribute>
            </attributes>
            <label>STATUS</label>
            <order>2</order>
          </category>
          <category>
            <attributes>
              <attribute>
                <label>ResourceTreeID</label>
                <mandatory>false</mandatory>
                <order>1</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
              </attribute>
              <attribute>
                <label>RelationshipTreeID</label>
                <mandatory>false</mandatory>
                <order>1</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
              </attribute>
            </attributes>
            <label>ORIGIN_CREATION</label>
            <order>3</order>
          </category>
        </categories>
        <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
        <id>33j99903-c2fc-4450-6852-b5e7022lk89h</id>
        <identifier>VNF-4450-6853</identifier>
        <physical>false</physical>
        <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
      </artifact-instance>
      <artifact-instance id="33j99903-c2fc-4450-6852-b5e7022lk890" uri="/nfvd/instance/artifact/33j99903-c2fc-
4450-6852-b5e7022lk890">
        <artifact-definition>
          <category>GENERIC</category>
          <family>VNF_COMPONENT</family>
        </artifact-definition>
        <status>
```

```
    <enabled>true</enabled>
    <label>ACTIVE</label>
    <visible-label>ACTIVE</visible-label>
  </status>
  <categories>
    <category>
      <attributes>
        <attribute>
          <label>Result_code</label>
          <mandatory>false</mandatory>
          <order>2</order>
          <type>TEXT</type>
          <unit>TEXT</unit>
        </attribute>
        <attribute>
          <label>Result_description</label>
          <mandatory>false</mandatory>
          <order>3</order>
          <type>TEXT</type>
          <unit>TEXT</unit>
        </attribute>
        <attribute>
          <label>Operation</label>
          <mandatory>false</mandatory>
          <order>1</order>
          <type>TEXT</type>
          <unit>TEXT</unit>
        </attribute>
      </attributes>
      <label>LAST_OPERATION</label>
      <order>3</order>
    </category>
    <category>
      <attributes>
        <attribute>
          <label>Descripton</label>
          <mandatory>false</mandatory>
          <order>2</order>
          <type>TEXT</type>
          <unit>TEXT</unit>
        </attribute>
        <attribute>
          <label>Name</label>
          <mandatory>false</mandatory>
          <order>1</order>
          <type>TEXT</type>
          <unit>TEXT</unit>
        </attribute>
      </attributes>
      <label>GENERAL</label>
      <order>1</order>
    </category>
    <category>
      <attributes>
        <attribute>
          <label>LifeCycle_State_Date</label>
          <mandatory>false</mandatory>
          <order>5</order>
          <type>Date</type>
          <unit>Date</unit>
        </attribute>
        <attribute>
          <label>Source</label>
```

```
                <mandatory>true</mandatory>
                <order>3</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
                <value>test12222</value>
              </attribute>
              <attribute>
                <label>Operational_Status</label>
                <mandatory>false</mandatory>
                <order>1</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
              </attribute>
              <attribute>
                <label>LifeCycle_State</label>
                <mandatory>false</mandatory>
                <order>4</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
              </attribute>
              <attribute>
                <label>additionalText</label>
                <mandatory>false</mandatory>
                <order>6</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
              </attribute>
              <attribute>
                <label>Operational_Status_Date</label>
                <mandatory>false</mandatory>
                <order>2</order>
                <type>Date</type>
                <unit>Date</unit>
              </attribute>
            </attributes>
            <label>STATUS</label>
            <order>2</order>
          </category>
        </categories>
        <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
        <id>33j99903-c2fc-4450-6852-b5e7022lk890</id>
        <identifier>VNF_COMPONENT-4450-6853</identifier>
        <physical>false</physical>
        <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
      </artifact-instance>
      <artifact-instance id="33j99903-c2fc-4450-6852-b5e7022lk892" uri="/nfvd/instance/artifact/33j99903-c2fc-
4450-6852-b5e7022lk892">
        <artifact-definition>
          <category>GENERIC</category>
          <family>VIRTUAL_MACHINE</family>
        </artifact-definition>
        <status>
          <enabled>true</enabled>
          <label>ENABLED</label>
          <visible-label>ENABLED</visible-label>
        </status>
        <categories>
          <category>
            <attributes>
              <attribute>
                <label>Result_code</label>
                <mandatory>false</mandatory>
                <order>2</order>
```

```
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Result_description</label>
            <mandatory>false</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Operation</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>LAST_OPERATION</label>
        <order>5</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>hostname</label>
            <mandatory>false</mandatory>
            <order>4</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Management_access</label>
            <mandatory>false</mandatory>
            <order>5</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Name</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Description</label>
            <mandatory>false</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Image</label>
            <mandatory>false</mandatory>
            <order>6</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Type</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>TEXT</type>
```

```
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>GENERAL</label>
        <order>1</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>ID</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>HOSTNAME</label>
            <mandatory>false</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>NAME</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>HYPERVISOR</label>
        <order>4</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>NAME</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>ID</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>VIM</label>
        <order>3</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>LifeCycle_State_Date</label>
            <mandatory>false</mandatory>
            <order>5</order>
            <type>Date</type>
            <unit>Date</unit>
          </attribute>
          <attribute>
```

```
            <label>Operational_Status_Date</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>Date</type>
            <unit>Date</unit>
          </attribute>
          <attribute>
            <label>additionalText</label>
            <mandatory>false</mandatory>
            <order>6</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>LifeCycle_State</label>
            <mandatory>false</mandatory>
            <order>4</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Source</label>
            <mandatory>true</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
            <value>test</value>
          </attribute>
          <attribute>
            <label>Operational_Status</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>STATUS</label>
        <order>2</order>
      </category>
    </categories>
    <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
    <id>33j99903-c2fc-4450-6852-b5e7022lk892</id>
    <identifier>VIRTUAL_MACHINE-4450-6853</identifier>
    <physical>false</physical>
    <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
  </artifact-instance>
</artifact-instances>
<relationship-instances>
  <relationship-instance id="902" uri="/nfvd/instance/relationship/902">
    <categories/>
    <child-artifact-id>33j99903-c2fc-4450-6852-b5e7022lk892</child-artifact-id>
    <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp>
    <parent-artifact-id>33j99903-c2fc-4450-6852-b5e7022lk890</parent-artifact-id>
    <status>
      <enabled>true</enabled>
      <label>DISABLED</label>
      <visible-label>DISABLED</visible-label>
    </status>
    <relationship-type>INCLUDE</relationship-type>
    <update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp>
  </relationship-instance>
  <relationship-instance id="901" uri="/nfvd/instance/relationship/901">
    <categories/>
```

	`<child-artifact-id>33j99903-c2fc-4450-6852-b5e7022lk890</child-artifact-id>`
	`<creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp>`
	`<parent-artifact-id>33j99903-c2fc-4450-6852-b5e7022lk89h</parent-artifact-id>`
	`<status>`
	`<enabled>true</enabled>`
	`<label>ENABLED</label>`
	`<visible-label>ENABLED</visible-label>`
	`</status>`
	`<relationship-type>INCLUDE</relationship-type>`
	`<update-timestamp>2015-04-01T14:29:35.665+0200</update-timestamp>`
	`</relationship-instance>`
	`</relationship-instances>`
	`</instance>`

Possible errors	HTTP 400: mandatory parameter is not send or has a bad format.
	HTTP 500: In case processing error in server side.
	HTTP 409. Instance already exists

4.6.2 JSON

Description	Creates a new instance
HTTP method	POST
Resource	/nfvd/instance/tree
Query Parameters	
Relevant Headers	Accept: application/json Content-Type: application/json

Request Body	`{`
	`"id": "5590c511-72ab-4450-6852-fe1b182fd130",`
	`"name": "test-4450-6852",`
	`"type": "VNF",`
	`"description": "test description 4450-6852",`
	`"language-code": "en_EN",`
	`"relationship-instances": [`
	`{`
	`"categories": [],`
	`"status": {`
	`"enabled": true,`
	`"label": "DISABLED",`
	`"visible-label": "DISABLED"`
	`},`
	`"creation-timestamp": "2015-04-01T14:23:30.153+0200",`
	`"update-timestamp": "2015-04-01T14:23:32.273+0200",`
	`"parent-artifact-id": "55j99903-c2fc-4450-6852-b5e7022lk890",`
	`"child-artifact-id": "55j99903-c2fc-4450-6852-b5e7022lk892",`
	`"relationship-type": "INCLUDE"`
	`},`
	`{`
	`"categories": [],`
	`"status": {`
	`"enabled": true,`
	`"label": "ENABLED",`

```
        "visible-label": "ENABLED"
      },
      "creation-timestamp": "2015-04-01T14:29:32.318+0200",
      "update-timestamp": "2015-04-01T14:29:35.665+0200",
      "parent-artifact-id": "55j99903-c2fc-4450-6852-b5e7022lk89h",
      "child-artifact-id": "55j99903-c2fc-4450-6852-b5e7022lk890",
      "relationship-type": "INCLUDE"
    }
  ],
  "artifact-instances":   [
        {
      "id": "55j99903-c2fc-4450-6852-b5e7022lk892",
      "identifier": "VIRTUAL_MACHINE-4450-6855",
      "physical": false,
      "categories":         [
                {
          "order": 5,
          "attributes":              [
                          {
              "order": 1,
              "mandatory": false,
              "value": null,
              "description": null,
              "type": "TEXT",
              "unit": "TEXT",
              "label": "Operation"
            },
                          {
              "order": 2,
              "mandatory": false,
              "value": null,
              "description": null,
              "type": "TEXT",
              "unit": "TEXT",
              "label": "Result_code"
            },
                          {
              "order": 3,
              "mandatory": false,
              "value": null,
              "description": null,
              "type": "TEXT",
              "unit": "TEXT",
              "label": "Result_description"
            }
          ],
          "label": "LAST_OPERATION"
        },
                {
          "order": 1,
          "attributes":              [
                          {
              "order": 4,
              "mandatory": false,
              "value": null,
              "description": null,
              "type": "TEXT",
              "unit": "TEXT",
              "label": "hostname"
            },
                          {
              "order": 5,
              "mandatory": false,
```

```
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Management_access"
          },
                    {
            "order": 6,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Image"
          },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Name"
          },
                    {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Description"
          },
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Type"
          }
        ],
        "label": "GENERAL"
      },
          {
        "order": 4,
        "attributes":          [
                    {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "HOSTNAME"
          },
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
```

```
            "unit": "TEXT",
            "label": "NAME"
          },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "ID"
          }
        ],
        "label": "HYPERVISOR"
      },
            {
        "order": 3,
        "attributes":          [
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "ID"
          },
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "NAME"
          }
        ],
        "label": "VIM"
      },
            {
        "order": 2,
        "attributes":          [
                    {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "LifeCycle_State_Date"
          },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operational_Status"
          },
                    {
            "order": 4,
            "mandatory": false,
```

```
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "LifeCycle_State"
          },
                {
            "order": 3,
            "mandatory": true,
            "value": "test",
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Source"
          },
                {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "Operational_Status_Date"
          },
                {
            "order": 6,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "additionalText"
          }
        ],
        "label": "STATUS"
      }
    ],
    "artifact-definition":      {
      "family": "VIRTUAL_MACHINE",
      "category": "GENERIC",
      "group": null,
      "type": null,
      "subtype": null,
      "version": null
    },
    "artifact-version": null,
    "status":      {
      "enabled": true,
      "label": "ENABLED",
      "visible-label": "ENABLED"
    },
    "creation-timestamp": "2015-01-14T14:12:25.000+0100",
    "update-timestamp": "2015-01-14T14:12:35.000+0100",
    "artifact-template-id": null
  },
      {
    "id": "55j99903-c2fc-4450-6852-b5e7022lk89h",
    "identifier": "VNF-4450-685",
    "physical": false,
    "categories":      [
          {
        "order": 4,
        "attributes":          [
```

```
                {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operation"
        },
                {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_description"
        },
                {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_code"
        }
    ],
    "label": "LAST_OPERATION"
},
        {
    "order": 1,
    "attributes":           [
                {
            "order": 4,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Description"
        },
                {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Name"
        },
                {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Vendor"
        },
                {
            "order": 2,
            "mandatory": false,
```

```
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Type"
          },
                    {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "AssignmentPolicyID"
          }
        ],
        "label": "GENERAL"
      },
          {
        "order": 2,
        "attributes":          [
                    {
            "order": 4,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "LifeCycle_State"
          },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operational_Status"
          },
                    {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "LifeCycle_State_Date"
          },
                    {
            "order": 3,
            "mandatory": true,
            "value": "test",
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Source"
          },
                    {
            "order": 6,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
```

```
            "unit": "TEXT",
            "label": "additionalText"
          },
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "Operational_Status_Date"
          }
        ],
        "label": "STATUS"
      },
              {
        "order": 3,
        "attributes":          [
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "ResourceTreeID"
          },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "RelationshipTreeID"
          }
        ],
        "label": "ORIGIN_CREATION"
      }
    ],
    "artifact-definition":        {
      "family": "VNF",
      "category": "GENERIC",
      "group": null,
      "type": null,
      "subtype": null,
      "version": null
    },
    "artifact-version": null,
    "status":        {
      "enabled": true,
      "label": "ACTIVE",
      "visible-label": "ACTIVE"
    },
    "creation-timestamp": "2015-01-14T14:12:25.000+0100",
    "update-timestamp": "2015-01-14T14:12:35.000+0100",
    "artifact-template-id": null
  },
      {
    "id": "55j99903-c2fc-4450-6852-b5e7022lk890",
    "identifier": "VNF_COMPONENT-4450-6855",
    "physical": false,
    "categories":        [
```

```
            {
        "order": 3,
        "attributes":            [
                        {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_code"
          },
                        {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_description"
          },
                        {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operation"
          }
        ],
        "label": "LAST_OPERATION"
      },
            {
        "order": 1,
        "attributes":            [
                        {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Name"
          },
                        {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Descripton"
          }
        ],
        "label": "GENERAL"
      },
            {
        "order": 2,
        "attributes":            [
                        {
            "order": 2,
            "mandatory": false,
```

```
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "Operational_Status_Date"
          },
                {
            "order": 3,
            "mandatory": true,
            "value": "test12222",
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Source"
          },
                {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "LifeCycle_State_Date"
          },
                {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operational_Status"
          },
                {
            "order": 6,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "additionalText"
          },
                {
            "order": 4,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "LifeCycle_State"
          }
        ],
        "label": "STATUS"
      }
    ],
    "artifact-definition":      {
      "family": "VNF_COMPONENT",
      "category": "GENERIC",
      "group": null,
      "type": null,
      "subtype": null,
      "version": null
    },
```

	"artifact-version": null,
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"artifact-template-id": null
	}
	]
	}

RAW request example	POST http://localhost:8080/nfvd/instance HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Content-Length: 18915 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) SEE REQUEST-BODY

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Thu, 07 May 2015 15:24:35 GMT
	{
	"id": null,
	"name": null,
	"type": null,
	"description": null,
	"language-code": null,
	"relationship-instances": [
	{
	"categories": [],
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-04-01T14:29:32.318+0200",
	"update-timestamp": "2015-04-01T14:29:35.665+0200",
	"parent-artifact-id": "55j99903-c2fc-4450-6852-b5e7022lk89h",
	"child-artifact-id": "55j99903-c2fc-4450-6852-b5e7022lk890",
	"relationship-type": "INCLUDE",
	"@uri": "/nfvd/instance/relationship/905",
	"@id": "905"
	},
	{
	"categories": [],
	"status": {
	"enabled": true,
	"label": "DISABLED",
	"visible-label": "DISABLED"
	},
	"creation-timestamp": "2015-04-01T14:23:30.153+0200",
	"update-timestamp": "2015-04-01T14:23:32.273+0200",
	"parent-artifact-id": "55j99903-c2fc-4450-6852-b5e7022lk890",
	"child-artifact-id": "55j99903-c2fc-4450-6852-b5e7022lk892",
	"relationship-type": "INCLUDE",
	"@uri": "/nfvd/instance/relationship/906",
	"@id": "906"

```
    }
  ],
  "artifact-instances":    [
        {
      "id": "55j99903-c2fc-4450-6852-b5e7022lk89h",
      "identifier": "VNF-4450-685",
      "physical": false,
      "categories":          [
                  {
            "order": 4,
            "attributes":                [
                              {
                  "order": 1,
                  "mandatory": false,
                  "value": null,
                  "description": null,
                  "type": "TEXT",
                  "unit": "TEXT",
                  "label": "Operation"
              },
                              {
                  "order": 3,
                  "mandatory": false,
                  "value": null,
                  "description": null,
                  "type": "TEXT",
                  "unit": "TEXT",
                  "label": "Result_description"
              },
                              {
                  "order": 2,
                  "mandatory": false,
                  "value": null,
                  "description": null,
                  "type": "TEXT",
                  "unit": "TEXT",
                  "label": "Result_code"
              }
            ],
            "label": "LAST_OPERATION"
        },
                  {
            "order": 1,
            "attributes":                [
                              {
                  "order": 4,
                  "mandatory": false,
                  "value": null,
                  "description": null,
                  "type": "TEXT",
                  "unit": "TEXT",
                  "label": "Description"
              },
                              {
                  "order": 3,
                  "mandatory": false,
                  "value": null,
                  "description": null,
                  "type": "TEXT",
                  "unit": "TEXT",
                  "label": "Vendor"
              },
                              {
```

```
                "order": 2,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Type"
            },
                        {
                "order": 1,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Name"
            },
                        {
                "order": 5,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "AssignmentPolicyID"
            }
        ],
        "label": "GENERAL"
    },
            {
        "order": 2,
        "attributes":           [
                        {
                "order": 5,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "Date",
                "unit": "Date",
                "label": "LifeCycle_State_Date"
            },
                        {
                "order": 4,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "LifeCycle_State"
            },
                        {
                "order": 2,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "Date",
                "unit": "Date",
                "label": "Operational_Status_Date"
            },
                        {
                "order": 1,
                "mandatory": false,
                "value": null,
```

```
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Operational_Status"
              },
                        {
                "order": 6,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "additionalText"
              },
                        {
                "order": 3,
                "mandatory": true,
                "value": "test",
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Source"
              }
            ],
            "label": "STATUS"
          },
                  {
            "order": 3,
            "attributes":              [
                        {
                "order": 1,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "ResourceTreeID"
              },
                        {
                "order": 1,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "RelationshipTreeID"
              }
            ],
            "label": "ORIGIN_CREATION"
          }
        ],
        "artifact-definition":         {
          "family": "VNF",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "artifact-version": null,
        "status":         {
          "enabled": true,
          "label": "ACTIVE",
```

```
      "visible-label": "ACTIVE"
    },
    "creation-timestamp": "2015-01-14T14:12:25.000+0100",
    "update-timestamp": "2015-01-14T14:12:35.000+0100",
    "artifact-template-id": null,
    "@uri": "/nfvd/instance/artifact/55j99903-c2fc-4450-6852-b5e7022lk89h",
    "@id": "55j99903-c2fc-4450-6852-b5e7022lk89h"
  },
      {
    "id": "55j99903-c2fc-4450-6852-b5e7022lk892",
    "identifier": "VIRTUAL_MACHINE-4450-6855",
    "physical": false,
    "categories":         [
                {
        "order": 5,
        "attributes":              [
                        {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_code"
          },
                        {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operation"
          },
                        {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_description"
          }
        ],
        "label": "LAST_OPERATION"
      },
                {
        "order": 1,
        "attributes":              [
                        {
            "order": 6,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Image"
          },
                        {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
```

```
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Management_access"
              },
                        {
                "order": 2,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Type"
              },
                        {
                "order": 4,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "hostname"
              },
                        {
                "order": 3,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Description"
              },
                        {
                "order": 1,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Name"
              }
            ],
            "label": "GENERAL"
          },
                  {
            "order": 4,
            "attributes":              [
                        {
                "order": 1,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "ID"
              },
                        {
                "order": 3,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "HOSTNAME"
```

```
        },
                {
        "order": 2,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "NAME"
      }
    ],
    "label": "HYPERVISOR"
  },
        {
    "order": 3,
    "attributes":        [
                {
        "order": 1,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "ID"
      },
                {
        "order": 2,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "NAME"
      }
    ],
    "label": "VIM"
  },
        {
    "order": 2,
    "attributes":        [
                {
        "order": 5,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "Date",
        "unit": "Date",
        "label": "LifeCycle_State_Date"
      },
                {
        "order": 6,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "additionalText"
      },
                {
        "order": 2,
        "mandatory": false,
        "value": null,
        "description": null,
```

```
                "type": "Date",
                "unit": "Date",
                "label": "Operational_Status_Date"
              },
                        {
                "order": 4,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "LifeCycle_State"
              },
                        {
                "order": 1,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Operational_Status"
              },
                        {
                "order": 3,
                "mandatory": true,
                "value": "test",
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Source"
              }
            ],
            "label": "STATUS"
          }
        ],
        "artifact-definition":          {
          "family": "VIRTUAL_MACHINE",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "artifact-version": null,
        "status":          {
          "enabled": true,
          "label": "ENABLED",
          "visible-label": "ENABLED"
        },
        "creation-timestamp": "2015-01-14T14:12:25.000+0100",
        "update-timestamp": "2015-01-14T14:12:35.000+0100",
        "artifact-template-id": null,
        "@uri": "/nfvd/instance/artifact/55j99903-c2fc-4450-6852-b5e7022lk892",
        "@id": "55j99903-c2fc-4450-6852-b5e7022lk892"
      },
          {
        "id": "55j99903-c2fc-4450-6852-b5e7022lk890",
        "identifier": "VNF_COMPONENT-4450-6855",
        "physical": false,
        "categories":          [
                  {
            "order": 3,
            "attributes":                [
```

```
                    {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_description"
        },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operation"
        },
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_code"
        }
    ],
    "label": "LAST_OPERATION"
},
        {
    "order": 1,
    "attributes":           [
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Descripton"
        },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Name"
        }
    ],
    "label": "GENERAL"
},
        {
    "order": 2,
    "attributes":           [
                    {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
```

```
                "unit": "Date",
                "label": "LifeCycle_State_Date"
              },
                        {
                "order": 4,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "LifeCycle_State"
              },
                        {
                "order": 6,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "additionalText"
              },
                        {
                "order": 2,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "Date",
                "unit": "Date",
                "label": "Operational_Status_Date"
              },
                        {
                "order": 3,
                "mandatory": true,
                "value": "test12222",
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Source"
              },
                        {
                "order": 1,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Operational_Status"
              }
            ],
            "label": "STATUS"
          }
        ],
        "artifact-definition":          {
          "family": "VNF_COMPONENT",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "artifact-version": null,
        "status":          {
          "enabled": true,
```

	"label": "ACTIVE", "visible-label": "ACTIVE" }, "creation-timestamp": "2015-01-14T14:12:25.000+0100", "update-timestamp": "2015-01-14T14:12:35.000+0100", "artifact-template-id": null, "@uri": "/nfvd/instance/artifact/55j99903-c2fc-4450-6852-b5e7022lk890", "@id": "55j99903-c2fc-4450-6852-b5e7022lk890" }], "@uri": "/nfvd/instance/null", "@id": "null" }
Possible errors	HTTP 400: mandatory parameter is not send or has a bad format.
	HTTP 500: In case processing error in server side.
	HTTP 409. Instance already exists

4.7 Create new Instance tree.

4.7.1 XML

Description	Creates a new instance tree
HTTP method	POST
Resource	/nfvd/instance/tree
Query Parameters	Not needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<instance xmlns="http://www.hp.com/nfvd"> <artifact-instances/> <description>test description 4450-6852</description> <id>5290c511-72ab-4450-6852-fe1b182fd130</id> <language-code>en_EN</language-code> <name>test-4450-6852</name> <relationship-instances/> <type>VNF</type> </instance>
RAW request example	POST http://localhost:8080/nfvd/instance/tree HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 304 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <?xml version="1.0" encoding="UTF-8" standalone="yes"?><instance xmlns="http://www.hp.com/nfvd"><artifact-instances/> <description>test description 4450-6852</description> <id>5290c511-72ab-4450-6852-fe1b182fd130</id> <language-code>en_EN</language-code> <name>test-4450-6852</name> <relationship-instances/> <type>VNF</type> </instance>
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 430 Date: Thu, 07 May 2015 16:28:47 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?><instance xmlns="http://www.hp.com/nfvd"><artifact-instances/> <description>test description 4450-6852</description> <id>5290c511-72ab-4450-6852-fe1b182fd130</id> <language-code>en_EN</language-code> <name>test-4450-6852</name> <relationship-instances/> <type>VNF</type> </instance>
Possible errors	HTTP 500: In case processing error in server side.. HTTP 409: In case tree already exists.

	HTTP 404: Instance Id not found.

4.7.2 JSON

Description	Creates a new instance tree.
HTTP method	POST
Resource	/nfvd/instance/tree
Query Parameters	Not needed.
Relevant Headers	Content-type: application/json Accept: application/json

Request Body	{
	"id": "2290c511-72ab-4450-6852-fe1b182fd130",
	"name": "test-4450-6852",
	"type": "VNF",
	"description": "test description 4450-6852",
	"language-code": "en_EN",
	"relationship-instances": [],
	"artifact-instances": []
	}

RAW request example	POST http://localhost:8080/nfvd/instance/tree HTTP/1.1
	Accept-Encoding: gzip,deflate
	Content-Type: application/json
	Accept: application/json
	Content-Length: 243
	Host: localhost:8080
	Connection: Keep-Alive
	User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
	
	{
	"id": "2290c511-72ab-4450-6852-fe1b182fd130",
	"name": "test-4450-6852",
	"type": "VNF",
	"description": "test description 4450-6852",
	"language-code": "en_EN",
	"relationship-instances": [],
	"artifact-instances": []
	}

RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Thu, 07 May 2015 16:11:20 GMT {"id":"2290c511-72ab-4450-6852-fe1b182fd130","name":"test-4450-6852","type":"VNF","description":"test description 4450-6852","language-code":"en_EN","artifact-instances":[],"relationship-instances":[],"@uri":"/nfvd/instance/2290c511-72ab-4450-6852-fe1b182fd130","@id":"2290c511-72ab-4450-6852-fe1b182fd130"}
Possible errors	HTTP 500: In case processing error in server side.. HTTP 409: In case tree already exists.

	HTTP 404: Instance Id not found.

4.8 Create new Instance tree UUID

4.8.1 XML

Description	Creates a new instance tree with a new UUID	
HTTP method	POST	
Resource	/nfvd/instance/tree/uuid	
Query Parameters	name	mandatory
	description	Optional
	type	Optional
Relevant Headers	Content-type: application/xml	
	Accept: application/xml	
Request Body	Not needed	
RAW request example	POST http://localhost:8080/nfvd/instance/tree/uuid?name=testName&description=testDescription&type=VNF HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 377 Date: Fri, 08 May 2015 07:10:38 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <instance id="60567497-aeb3-4152-a0f3-432037f84163" uri="/nfvd/instance/60567497-aeb3-4152-a0f3-432037f84163" xmlns="http://www.hp.com/nfvd"> <artifact-instances/> <description>testDescription</description> <id>60567497-aeb3-4152-a0f3-432037f84163</id> <name>testName</name> <relationship-instances/> <type>VNF</type> </instance>	
Possible errors	HTTP 500: In case processing error in server side..	
	HTTP 400: Bad parameters	
	HTTP 404: Instance Id not found.	

4.8.2 JSON

Description	Creates a new instance tree with a new UUID
HTTP method	POST

Resource	/nfvd/instance/tree/uuid	
Query Parameters	name	Mandatory
	description	Optional
	type	Optional
Relevant Headers	Content-type: application/json	
	Accept: application/json	
Request Body	Not needed.	
RAW request example	POST http://localhost:8080/nfvd/instance/tree/uuid?name=nameJSON&description=descJSON&type=VNF HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 07:22:29 GMT
	
	{
	"id": "a0429573-5efd-45f6-b62c-8da437af576a",
	"name": "nameJSON",
	"type": "VNF",
	"description": "descJSON",
	"language-code": null,
	"artifact-instances": [],
	"relationship-instances": [],
	"@uri": "/nfvd/instance/a0429573-5efd-45f6-b62c-8da437af576a",
	"@id": "a0429573-5efd-45f6-b62c-8da437af576a"
	}	

Possible errors	HTTP 500: In case processing error in server side..	
	HTTP 400: Bad parameters	

4.9 Upload tree

4.9.1 XML

Description	Uploads tree definitions
HTTP method	POST
Resource	/nfvd/instance/upload
Query Parameters	Not needed.
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<instances xmlns="http://www.hp.com/nfvd"> <elements> <artifact-instances> <artifact-instance> <artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> <category> <attributes> <attribute> <label>Operation</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Result_code</label> <mandatory>false</mandatory> <order>2</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Result_description</label> <mandatory>false</mandatory> <order>3</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> </attributes> <label>LAST_OPERATION</label> <order>3</order> </category> <category> <attributes> <attribute> <label>Name</label> <mandatory>false</mandatory> <order>1</order>

```
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Descripton</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>GENERAL</label>
        <order>1</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>Operational_Status</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>LifeCycle_State_Date</label>
            <mandatory>false</mandatory>
            <order>5</order>
            <type>Date</type>
            <unit>Date</unit>
          </attribute>
          <attribute>
            <label>LifeCycle_State</label>
            <mandatory>false</mandatory>
            <order>4</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Operational_Status_Date</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>Date</type>
            <unit>Date</unit>
          </attribute>
          <attribute>
            <label>Source</label>
            <mandatory>true</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
            <value>test12222</value>
          </attribute>
          <attribute>
            <label>additionalText</label>
            <mandatory>false</mandatory>
            <order>6</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>STATUS</label>
        <order>2</order>
      </category>
```

```
    </categories>
    <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
    <id>11j99903-c2fc-9996-7065-b5e7022lk890</id>
    <identifier>VNF_COMPONENT-9996-7065</identifier>
    <physical>false</physical>
    <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
  </artifact-instance>
  <artifact-instance>
    <artifact-definition>
      <category>GENERIC</category>
      <family>VIRTUAL_MACHINE</family>
    </artifact-definition>
    <status>
      <enabled>true</enabled>
      <label>ENABLED</label>
      <visible-label>ENABLED</visible-label>
    </status>
    <categories>
      <category>
        <attributes>
          <attribute>
            <label>Result_description</label>
            <mandatory>false</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Result_code</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Operation</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>LAST_OPERATION</label>
        <order>5</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>hostname</label>
            <mandatory>false</mandatory>
            <order>4</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Name</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Image</label>
```

```
            <mandatory>false</mandatory>
            <order>6</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Description</label>
            <mandatory>false</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Type</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Management_access</label>
            <mandatory>false</mandatory>
            <order>5</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>GENERAL</label>
        <order>1</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>HOSTNAME</label>
            <mandatory>false</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>ID</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>NAME</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>HYPERVISOR</label>
        <order>4</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>ID</label>
            <mandatory>false</mandatory>
            <order>1</order>
```

```
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>NAME</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>VIM</label>
        <order>3</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>additionalText</label>
            <mandatory>false</mandatory>
            <order>6</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Operational_Status</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>LifeCycle_State_Date</label>
            <mandatory>false</mandatory>
            <order>5</order>
            <type>Date</type>
            <unit>Date</unit>
          </attribute>
          <attribute>
            <label>Operational_Status_Date</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>Date</type>
            <unit>Date</unit>
          </attribute>
          <attribute>
            <label>Source</label>
            <mandatory>true</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
            <value>test</value>
          </attribute>
          <attribute>
            <label>LifeCycle_State</label>
            <mandatory>false</mandatory>
            <order>4</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>STATUS</label>
        <order>2</order>
      </category>
```

```
    </categories>
    <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
    <id>11j99903-c2fc-9996-7065-b5e7022lk892</id>
    <identifier>VIRTUAL_MACHINE-9996-7065</identifier>
    <physical>false</physical>
    <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
  </artifact-instance>
  <artifact-instance>
    <artifact-definition>
      <category>GENERIC</category>
      <family>VNF</family>
    </artifact-definition>
    <status>
      <enabled>true</enabled>
      <label>ACTIVE</label>
      <visible-label>ACTIVE</visible-label>
    </status>
    <categories>
      <category>
        <attributes>
          <attribute>
            <label>Result_code</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Operation</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Result_description</label>
            <mandatory>false</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>LAST_OPERATION</label>
        <order>4</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>Vendor</label>
            <mandatory>false</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Description</label>
            <mandatory>false</mandatory>
            <order>4</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>AssignmentPolicyID</label>
```

```
            <mandatory>false</mandatory>
            <order>5</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Type</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Name</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>GENERAL</label>
        <order>1</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>LifeCycle_State</label>
            <mandatory>false</mandatory>
            <order>4</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Operational_Status</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Operational_Status_Date</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>Date</type>
            <unit>Date</unit>
          </attribute>
          <attribute>
            <label>additionalText</label>
            <mandatory>false</mandatory>
            <order>6</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Source</label>
            <mandatory>true</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
            <value>test</value>
          </attribute>
          <attribute>
            <label>LifeCycle_State_Date</label>
```

```
                <mandatory>false</mandatory>
                <order>5</order>
                <type>Date</type>
                <unit>Date</unit>
              </attribute>
            </attributes>
            <label>STATUS</label>
            <order>2</order>
          </category>
          <category>
            <attributes>
              <attribute>
                <label>ResourceTreeID</label>
                <mandatory>false</mandatory>
                <order>1</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
              </attribute>
              <attribute>
                <label>RelationshipTreeID</label>
                <mandatory>false</mandatory>
                <order>1</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
              </attribute>
            </attributes>
            <label>ORIGIN_CREATION</label>
            <order>3</order>
          </category>
        </categories>
        <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
        <id>11j99903-c2fc-9996-7065-b5e7022lk89h</id>
        <identifier>VNF-9996-7065</identifier>
        <physical>false</physical>
        <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
      </artifact-instance>
    </artifact-instances>
    <relationship-instances>
      <relationship-instance>
        <categories/>
        <child-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk892</child-artifact-id>
        <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp>
        <parent-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk890</parent-artifact-id>
        <status>
          <enabled>true</enabled>
          <label>DISABLED</label>
          <visible-label>DISABLED</visible-label>
        </status>
        <relationship-type>INCLUDE</relationship-type>
        <update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp>
      </relationship-instance>
      <relationship-instance>
        <categories/>
        <child-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk890</child-artifact-id>
        <creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp>
        <parent-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk89h</parent-artifact-id>
        <status>
          <enabled>true</enabled>
          <label>ENABLED</label>
          <visible-label>ENABLED</visible-label>
        </status>
        <relationship-type>INCLUDE</relationship-type>
        <update-timestamp>2015-04-01T14:29:35.665+0200</update-timestamp>
```

```
      </relationship-instance>
    </relationship-instances>
  </elements>
  <instance-trees>
    <instance>
      <artifact-instances>
        <artifact-instance>
          <id>11j99903-c2fc-9996-7065-b5e7022lk892</id>
        </artifact-instance>
        <artifact-instance>
          <id>11j99903-c2fc-9996-7065-b5e7022lk890</id>
        </artifact-instance>
        <artifact-instance>
          <id>11j99903-c2fc-9996-7065-b5e7022lk89h</id>
        </artifact-instance>
      </artifact-instances>
      <description>test description 9996-7065</description>
      <id>o990c511-72ab-9996-7065-fe1b182fd130</id>
      <language-code>en_EN</language-code>
      <name>test-9996-7065</name>
      <relationship-instances>
        <relationship-instance>
          <child-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk890</child-artifact-id>
          <parent-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk89h</parent-artifact-id>
          <relationship-type>INCLUDE</relationship-type>
        </relationship-instance>
        <relationship-instance>
          <child-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk892</child-artifact-id>
          <parent-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk890</parent-artifact-id>
          <relationship-type>INCLUDE</relationship-type>
        </relationship-instance>
      </relationship-instances>
      <type>VNF</type>
    </instance>
  </instance-trees>
</instances>
```


RAW request example

```
POST http://localhost:8080/nfvd/instance/upload HTTP/1.1
Accept-Encoding: gzip,deflate
Content-Type: application/xml
Accept: application/xml
Content-Length: 5180
Host: localhost:8080
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

SEE REQUEST BODY
```

RAW Success response example


```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Content-Type: application/xml
Transfer-Encoding: chunked
Date: Mon, 15 Jun 2015 13:10:12 GMT

 <instances xmlns="http://www.hp.com/nfvd">
  <elements>
    <artifact-instances>
      <artifact-instance id="11j99903-c2fc-9996-7065-b5e7022lk890" uri="/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk890">
        <artifact-definition>
          <category>GENERIC</category>
          <family>VNF_COMPONENT</family>
        </artifact-definition>
```

```
        <status>
          <enabled>true</enabled>
          <label>ACTIVE</label>
          <visible-label>ACTIVE</visible-label>
        </status>
        <categories>
          […]
        </categories>
        <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
        <id>11j99903-c2fc-9996-7065-b5e7022lk890</id>
        <identifier>VNF_COMPONENT-9996-7065</identifier>
        <physical>false</physical>
        <update-timestamp>2015-06-15T15:10:10.047+0200</update-timestamp>
      </artifact-instance>
      <artifact-instance id="11j99903-c2fc-9996-7065-b5e7022lk892" uri="/nfvd/instance/artifact/11j99903-c2fc-
9996-7065-b5e7022lk892">
        <artifact-definition>
          <category>GENERIC</category>
          <family>VIRTUAL_MACHINE</family>
        </artifact-definition>
        <status>
          <enabled>true</enabled>
          <label>ENABLED</label>
          <visible-label>ENABLED</visible-label>
        </status>
        <categories>
          […]
        </categories>
        <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
        <id>11j99903-c2fc-9996-7065-b5e7022lk892</id>
        <identifier>VIRTUAL_MACHINE-9996-7065</identifier>
        <physical>false</physical>
        <update-timestamp>2015-06-15T15:10:10.419+0200</update-timestamp>
      </artifact-instance>
      <artifact-instance id="11j99903-c2fc-9996-7065-b5e7022lk89h" uri="/nfvd/instance/artifact/11j99903-c2fc-
9996-7065-b5e7022lk89h">
        <artifact-definition>
          <category>GENERIC</category>
          <family>VNF</family>
        </artifact-definition>
        <status>
          <enabled>true</enabled>
          <label>ACTIVE</label>
          <visible-label>ACTIVE</visible-label>
        </status>
        <categories>
         […]
        </categories>
        <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
        <id>11j99903-c2fc-9996-7065-b5e7022lk89h</id>
        <identifier>VNF-9996-7065</identifier>
        <physical>false</physical>
        <update-timestamp>2015-06-15T15:10:10.521+0200</update-timestamp>
      </artifact-instance>
    </artifact-instances>
    <relationship-instances>
      <relationship-instance id="609" uri="/nfvd/instance/relationship/609">
        <categories/>
        <child-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk892</child-artifact-id>
        <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp>
        <parent-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk890</parent-artifact-id>
        <status>
          <enabled>true</enabled>
```

```
            <label>DISABLED</label>
            <visible-label>DISABLED</visible-label>
          </status>
          <relationship-type>INCLUDE</relationship-type>
          <update-timestamp>2015-06-15T15:10:10.621+0200</update-timestamp>
        </relationship-instance>
        <relationship-instance id="610" uri="/nfvd/instance/relationship/610">
          <categories/>
          <child-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk890</child-artifact-id>
          <creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp>
          <parent-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk89h</parent-artifact-id>
          <status>
            <enabled>true</enabled>
            <label>ENABLED</label>
            <visible-label>ENABLED</visible-label>
          </status>
          <relationship-type>INCLUDE</relationship-type>
          <update-timestamp>2015-06-15T15:10:10.922+0200</update-timestamp>
        </relationship-instance>
      </relationship-instances>
    </elements>
    <instance-trees>
      <instance id="o990c511-72ab-9996-7065-fe1b182fd130" uri="/nfvd/instance/o990c511-72ab-9996-7065-
fe1b182fd130">
        <artifact-instances>
          <artifact-instance id="11j99903-c2fc-9996-7065-b5e7022lk892" uri="/nfvd/instance/artifact/11j99903-
c2fc-9996-7065-b5e7022lk892">
            <id>11j99903-c2fc-9996-7065-b5e7022lk892</id>
          </artifact-instance>
          <artifact-instance id="11j99903-c2fc-9996-7065-b5e7022lk890" uri="/nfvd/instance/artifact/11j99903-
c2fc-9996-7065-b5e7022lk890">
            <id>11j99903-c2fc-9996-7065-b5e7022lk890</id>
          </artifact-instance>
          <artifact-instance id="11j99903-c2fc-9996-7065-b5e7022lk89h" uri="/nfvd/instance/artifact/11j99903-
c2fc-9996-7065-b5e7022lk89h">
            <id>11j99903-c2fc-9996-7065-b5e7022lk89h</id>
          </artifact-instance>
        </artifact-instances>
        <description>test description 9996-7065</description>
        <id>o990c511-72ab-9996-7065-fe1b182fd130</id>
        <language-code>en_EN</language-code>
        <name>test-9996-7065</name>
        <relationship-instances>
          <relationship-instance id="610" uri="/nfvd/instance/relationship/610">
            <child-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk890</child-artifact-id>
            <parent-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk89h</parent-artifact-id>
            <relationship-type>INCLUDE</relationship-type>
          </relationship-instance>
          <relationship-instance id="609" uri="/nfvd/instance/relationship/609">
            <child-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk892</child-artifact-id>
            <parent-artifact-id>11j99903-c2fc-9996-7065-b5e7022lk890</parent-artifact-id>
            <relationship-type>INCLUDE</relationship-type>
          </relationship-instance>
        </relationship-instances>
        <type>VNF</type>
      </instance>
    </instance-trees>
</instances>
```


Possible errors	400 Bad request: Request syntax error

	404 Not found
	500 Internal server error: An unexpected error occurred processing the request

4.9.2 JSON

Description	Uploads tree definitions Elements (Artifacts and Relationships) and Trees
HTTP method	POST
Resource	/nfvd/template/upload
Query Parameters	Not needed
Relevant Headers	Content-type: application/json Accept: application/json

Request Body	{
	"artifact-instances": [
	{
	"id": "11j99903-c2fc-9996-7065-b5e7022lk890",
	"identifier": "VNF_COMPONENT-9996-7065",
	"physical": false,
	"categories": [
	{
	"order": 3,
	"attributes": [
	{
	"order": 1,
	"mandatory": false,
	"value": null,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Operation"
	},
	{
	"order": 2,
	"mandatory": false,
	"value": null,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Result_code"
	},
	{
	"order": 3,
	"mandatory": false,
	"value": null,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Result_description"
	}
	],
	"label": "LAST_OPERATION"
	},
	{
	"order": 1,
	"attributes": [
	{

```
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Name"
          },
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Descripton"
          }
        ],
        "label": "GENERAL"
      },
            {
        "order": 2,
        "attributes":            [
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operational_Status"
          },
                    {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "LifeCycle_State_Date"
          },
                    {
            "order": 4,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "LifeCycle_State"
          },
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "Operational_Status_Date"
          },
                    {
            "order": 3,
            "mandatory": true,
            "value": "test12222",
```

```
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Source"
          },
                {
            "order": 6,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "additionalText"
          }
        ],
        "label": "STATUS"
      }
    ],
    "artifact-definition":      {
      "family": "VNF_COMPONENT",
      "category": "GENERIC",
      "group": null,
      "type": null,
      "subtype": null,
      "version": null
    },
    "status":      {
      "enabled": true,
      "label": "ACTIVE",
      "visible-label": "ACTIVE"
    },
    "creation-timestamp": "2015-01-14T14:12:25.000+0100",
    "update-timestamp": "2015-06-15T15:10:10.047+0200"
  },
      {
    "id": "11j99903-c2fc-9996-7065-b5e7022lk892",
    "identifier": "VIRTUAL_MACHINE-9996-7065",
    "physical": false,
    "categories":      [
          {
        "order": 5,
        "attributes":          [
                {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_description"
          },
                {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_code"
          },
                {
            "order": 1,
            "mandatory": false,
```

```
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operation"
          }
        ],
        "label": "LAST_OPERATION"
      },
          {
        "order": 1,
        "attributes":          [
                  {
            "order": 4,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "hostname"
          },
                  {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Name"
          },
                  {
            "order": 6,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Image"
          },
                  {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Description"
          },
                  {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Type"
          },
                  {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
```

```
            "unit": "TEXT",
            "label": "Management_access"
          }
        ],
        "label": "GENERAL"
      },
          {
        "order": 4,
        "attributes":            [
                    {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "HOSTNAME"
          },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "ID"
          },
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "NAME"
          }
        ],
        "label": "HYPERVISOR"
      },
          {
        "order": 3,
        "attributes":            [
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "ID"
          },
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "NAME"
          }
        ],
        "label": "VIM"
      },
```

```
            {
        "order": 2,
        "attributes":            [
                    {
            "order": 6,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "additionalText"
          },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operational_Status"
          },
                    {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "LifeCycle_State_Date"
          },
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "Operational_Status_Date"
          },
                    {
            "order": 3,
            "mandatory": true,
            "value": "test",
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Source"
          },
                    {
            "order": 4,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "LifeCycle_State"
          }
        ],
        "label": "STATUS"
      }
    ],
    "artifact-definition":        {
      "family": "VIRTUAL_MACHINE",
```

```
      "category": "GENERIC",
      "group": null,
      "type": null,
      "subtype": null,
      "version": null
    },
    "status":        {
      "enabled": true,
      "label": "ENABLED",
      "visible-label": "ENABLED"
    },
    "creation-timestamp": "2015-01-14T14:12:25.000+0100",
    "update-timestamp": "2015-06-15T15:10:10.419+0200"
  },
      {
    "id": "11j99903-c2fc-9996-7065-b5e7022lk89h",
    "identifier": "VNF-9996-7065",
    "physical": false,
    "categories":        [
              {
        "order": 4,
        "attributes":             [
                        {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_code"
          },
                        {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operation"
          },
                        {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_description"
          }
        ],
        "label": "LAST_OPERATION"
      },
              {
        "order": 1,
        "attributes":             [
                        {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Vendor"
```

```
        },
                {
        "order": 4,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Description"
        },
                {
        "order": 5,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "AssignmentPolicyID"
        },
                {
        "order": 2,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Type"
        },
                {
        "order": 1,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Name"
        }
      ],
      "label": "GENERAL"
    },
        {
      "order": 2,
      "attributes":        [
                {
        "order": 4,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "LifeCycle_State"
        },
                {
        "order": 1,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "Operational_Status"
        },
                {
        "order": 2,
```

```
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "Operational_Status_Date"
          },
                {
            "order": 6,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "additionalText"
          },
                {
            "order": 3,
            "mandatory": true,
            "value": "test",
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Source"
          },
                {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "LifeCycle_State_Date"
          }
        ],
        "label": "STATUS"
      },
          {
        "order": 3,
        "attributes":          [
                {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "ResourceTreeID"
          },
                {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "RelationshipTreeID"
          }
        ],
        "label": "ORIGIN_CREATION"
      }
    ],
    "artifact-definition":      {
```

```
        "family": "VNF",
        "category": "GENERIC",
        "group": null,
        "type": null,
        "subtype": null,
        "version": null
      },
      "status":        {
        "enabled": true,
        "label": "ACTIVE",
        "visible-label": "ACTIVE"
      },
      "creation-timestamp": "2015-01-14T14:12:25.000+0100",
      "update-timestamp": "2015-06-15T15:10:10.521+0200"
    }
  ],
  "relationship-instances":    [
        {
      "categories": [],
      "status":        {
        "enabled": true,
        "label": "DISABLED",
        "visible-label": "DISABLED"
      },
      "creation-timestamp": "2015-04-01T14:23:30.153+0200",
      "update-timestamp": "2015-06-15T15:10:10.621+0200",
      "parent-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk890",
      "child-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk892",
      "relationship-type": "INCLUDE"
    },
        {
      "categories": [],
      "status":        {
        "enabled": true,
        "label": "ENABLED",
        "visible-label": "ENABLED"
      },
      "creation-timestamp": "2015-04-01T14:29:32.318+0200",
      "update-timestamp": "2015-06-15T15:10:10.922+0200",
      "parent-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk89h",
      "child-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk890",
      "relationship-type": "INCLUDE"
    }
  ],
  "instance-trees": [   {
    "id": "o990c511-72ab-9996-7065-fe1b182fd130",
    "name": "test-9996-7065",
    "type": "VNF",
    "description": "test description 9996-7065",
    "language-code": "en_EN",
    "artifact-instances":      [
            {
        "id": "11j99903-c2fc-9996-7065-b5e7022lk892"
      },
            {
        "id": "11j99903-c2fc-9996-7065-b5e7022lk890"
      },
            {
        "id": "11j99903-c2fc-9996-7065-b5e7022lk89h"
      }
    ],
    "relationship-instances":      [
            {
```

	"parent-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk89h",
	"child-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk890",
	"relationship-type": "INCLUDE"
	},
	{
	"parent-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk890",
	"child-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk892",
	"relationship-type": "INCLUDE"
	}
	]
	}]
	}

RAW request example	POST http://localhost:8080/nfvd/instance/upload HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 21710 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) SEE REQUEST BODY

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 15 Jun 2015 13:15:02 GMT
	
	{
	"artifact-instances": [
	{
	"id": "11j99903-c2fc-9996-7065-b5e7022lk890",
	"identifier": "VNF_COMPONENT-9996-7065",
	"physical": false,
	"categories": [],
	"artifact-definition": {
	"family": "VNF_COMPONENT",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-06-15T15:15:00.818+0200",
	"@uri": "/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk890",
	"@id": "11j99903-c2fc-9996-7065-b5e7022lk890"
	},
	{
	"id": "11j99903-c2fc-9996-7065-b5e7022lk892",
	"identifier": "VIRTUAL_MACHINE-9996-7065",
	"physical": false,
	"categories": [],
	"artifact-definition": {
	"family": "VIRTUAL_MACHINE",
	"category": "GENERIC",
	"group": null,

```
        "type": null,
        "subtype": null,
        "version": null
      },
      "status":         {
        "enabled": true,
        "label": "ENABLED",
        "visible-label": "ENABLED"
      },
      "creation-timestamp": "2015-01-14T14:12:25.000+0100",
      "update-timestamp": "2015-06-15T15:15:00.945+0200",
      "@uri": "/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk892",
      "@id": "11j99903-c2fc-9996-7065-b5e7022lk892"
    },
        {
      "id": "11j99903-c2fc-9996-7065-b5e7022lk89h",
      "identifier": "VNF-9996-7065",
      "physical": false,
      "categories":         [],
      "artifact-definition":         {
        "family": "VNF",
        "category": "GENERIC",
        "group": null,
        "type": null,
        "subtype": null,
        "version": null
      },
      "status":         {
        "enabled": true,
        "label": "ACTIVE",
        "visible-label": "ACTIVE"
      },
      "creation-timestamp": "2015-01-14T14:12:25.000+0100",
      "update-timestamp": "2015-06-15T15:15:01.084+0200",
      "@uri": "/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk89h",
      "@id": "11j99903-c2fc-9996-7065-b5e7022lk89h"
    }
  ],
  "relationship-instances":    [
        {
      "categories": [],
      "status":         {
        "enabled": true,
        "label": "DISABLED",
        "visible-label": "DISABLED"
      },
      "creation-timestamp": "2015-04-01T14:23:30.153+0200",
      "update-timestamp": "2015-06-15T15:15:01.218+0200",
      "parent-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk890",
      "child-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk892",
      "relationship-type": "INCLUDE",
      "@uri": "/nfvd/instance/relationship/609",
      "@id": "609"
    },
        {
      "categories": [],
      "status":         {
        "enabled": true,
        "label": "ENABLED",
        "visible-label": "ENABLED"
      },
      "creation-timestamp": "2015-04-01T14:29:32.318+0200",
      "update-timestamp": "2015-06-15T15:15:01.292+0200",
```

```
        "parent-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk89h",
        "child-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk890",
        "relationship-type": "INCLUDE",
        "@uri": "/nfvd/instance/relationship/610",
        "@id": "610"
      }
    ],
    "instance-trees": [    {
      "id": "o990c511-72ab-9996-7065-fe1b182fd130",
      "name": "test-9996-7065",
      "type": "VNF",
      "description": "test description 9996-7065",
      "language-code": "en_EN",
      "artifact-instances":       [
                {
          "id": "11j99903-c2fc-9996-7065-b5e7022lk892",
          "@uri": "/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk892",
          "@id": "11j99903-c2fc-9996-7065-b5e7022lk892"
        },
                {
          "id": "11j99903-c2fc-9996-7065-b5e7022lk890",
          "@uri": "/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk890",
          "@id": "11j99903-c2fc-9996-7065-b5e7022lk890"
        },
                {
          "id": "11j99903-c2fc-9996-7065-b5e7022lk89h",
          "@uri": "/nfvd/instance/artifact/11j99903-c2fc-9996-7065-b5e7022lk89h",
          "@id": "11j99903-c2fc-9996-7065-b5e7022lk89h"
        }
      ],
      "relationship-instances":       [
                {
          "parent-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk89h",
          "child-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk890",
          "relationship-type": "INCLUDE",
          "@uri": "/nfvd/instance/relationship/610",
          "@id": "610"
        },
                {
          "parent-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk890",
          "child-artifact-id": "11j99903-c2fc-9996-7065-b5e7022lk892",
          "relationship-type": "INCLUDE",
          "@uri": "/nfvd/instance/relationship/609",
          "@id": "609"
        }
      ],
      "@uri": "/nfvd/instance/o990c511-72ab-9996-7065-fe1b182fd130",
      "@id": "o990c511-72ab-9996-7065-fe1b182fd130"
    }]
}
```


Possible errors	400 Bad request: Request syntax error
	404 Not found.
	500 Internal server error: An unexpected error occurred processing the request

4.10 Update Instance

4.10.1 XML

Description	Updates an instance.
HTTP method	PUT
Resource	/nfvd/instance
Query Parameters	Not needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<instance xmlns="http://www.hp.com/nfvd”> <artifact-instances> <artifact- <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_MACHINE</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> <category> <attributes> <attribute> <label>Operation</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> [...] </attributes> <label>LAST_OPERATION</label> <order>5</order> </category> **[...]** </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>11j99903-c2fc-4450-6852-b5e7022lk892</id> <identifier>VIRTUAL_MACHINE-4450-6852</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-instance> **[...]** </artifact-instances> <description>test description 4450-6852</description> <id>o990c511-72ab-4450-6852-fe1b182fd130</id> <language-code>en_EN</language-code> <name>test-4450-6852</name> <relationship-instances> <relationship-instance id="60" uri="/nfvd/instance/relationship/60"> <categories/> <child-artifact-id>11j99903-c2fc-4450-6852-b5e7022lk892</child-artifact-id> <creation-timestamp>2015-04-01T14:23:30.153+0200</creation-timestamp>

	<parent-artifact-id>11j99903-c2fc-4450-6852-b5e7022lk890</parent-artifact-id> <status> <enabled>true</enabled> <label>DISABLED</label> <visible-label>DISABLED</visible-label> </status> <relationship-type>INCLUDE</relationship-type> <update-timestamp>2015-04-01T14:23:32.273+0200</update-timestamp> </relationship-instance> **[...]** </relationship-instances> <type>VNF</type> </instance>
RAW request example	PUT http://localhost:8080/nfvd/instance HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 21767 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <instance xmlns="http://www.hp.com/nfvd"> ..... (see request body) ..... </instance>
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Transfer-Encoding: chunked Date: Fri, 08 May 2015 07:43:02 GMT <instance id="null" uri="/nfvd/instance/null" xmlns="http://www.hp.com/nfvd"> <artifact-instances> <artifact-instance id="11j99903-c2fc-4450-6852-b5e7022lk892" uri="/nfvd/instance/artifact/11j99903-c2fc-4450-6852-b5e7022lk892"> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_MACHINE</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> <category> <attributes> <attribute> <label>Operation</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> [...] </attributes> <label>LAST_OPERATION</label> <order>5</order> </category>

```
        [...]
      </categories>
      <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
      <id>11j99903-c2fc-4450-6852-b5e7022lk892</id>
      <identifier>VIRTUAL_MACHINE-4450-6852</identifier>
      <physical>false</physical>
      <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
    </artifact-instance>
    [...]
  </artifact-instances>
  <relationship-instances>
    <relationship-instance id="59" uri="/nfvd/instance/relationship/59">
      <categories/>
      <child-artifact-id>11j99903-c2fc-4450-6852-b5e7022lk890</child-artifact-id>
      <creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp>
      <parent-artifact-id>11j99903-c2fc-4450-6852-b5e7022lk89h</parent-artifact-
id>
      <status>
        <enabled>true</enabled>
        <label>ENABLED</label>
        <visible-label>ENABLED</visible-label>
      </status>
      <relationship-type>INCLUDE</relationship-type>
      <update-timestamp>2015-04-01T14:29:35.665+0200</update-timestamp>
    </relationship-instance>
    [...]
  </relationship-instances>
</instance>
```


Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404: Instance id not found.

4.10.2 JSON

Description	Updates a instance.	
HTTP method	PUT	
Resource	/nfvd/instance	
Query Parameters		
Relevant Headers	Content-type: application/json	
	Accept: application/json	
Request Body	{ "id": "o990c511-72ab-4450-6852-fe1b182fd130", "name": "test-4450-6852", "type": "VNF", "description": "test description updated 4450-6852", "language-code": "en_EN", "artifact-instances": [{ "id": "11j99903-c2fc-4450-6852-b5e7022lk892", "identifier": "VIRTUAL_MACHINE-4450-6852_SAMPLE", "physical": false, "categories": [	

```
                {
            "order": 5,
            "attributes":              [
                {
                "order": 1,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Operation"
              },
              [...]
            ],
            "label": "LAST_OPERATION"
          },
          [...]
        ],
        "artifact-definition":         {
          "family": "VIRTUAL_MACHINE",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "artifact-version": null,
        "status":         {
          "enabled": true,
          "label": "ENABLED",
          "visible-label": "ENABLED"
        },
        "creation-timestamp": "2015-01-14T14:12:25.000+0100",
        "update-timestamp": "2015-01-14T14:12:35.000+0100",
        "artifact-template-id": null,
        "@uri": "/nfvd/instance/artifact/11j99903-c2fc-4450-6852-b5e7022lk892",
        "@id": "11j99903-c2fc-4450-6852-b5e7022lk892"
      },
          [...]

    ],
    "relationship-instances":    [
            {
        "categories": [],
        "status":         {
          "enabled": true,
          "label": "DISABLED",
          "visible-label": "DISABLED"
        },
        "creation-timestamp": "2015-04-01T14:23:30.153+0200",
        "update-timestamp": "2015-04-01T14:23:32.273+0200",
        "relationship-type": "INCLUDE",
        "parent-artifact-id": "11j99903-c2fc-4450-6852-b5e7022lk890",
        "child-artifact-id": "11j99903-c2fc-4450-6852-b5e7022lk892",
        "@uri": "/nfvd/instance/relationship/60",
        "@id": "60"
      },

      [...]
    ],
    "@uri": "/nfvd/instance/o990c511-72ab-4450-6852-fe1b182fd130",
    "@id": "o990c511-72ab-4450-6852-fe1b182fd130"
}
```

RAW request example	PUT http://localhost:8080/nfvd/instance HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 21767 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) SEE REQUEST-BODY

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Fri, 08 May 2015 07:59:14 GMT
	
	{
	"id": null,
	"name": null,
	"type": null,
	"description": null,
	"language-code": null,
	"artifact-instances": [
	{
	"id": "11j99903-c2fc-4450-6852-b5e7022lk89h",
	"identifier": "VNF-4450-6852",
	"physical": false,
	"categories": [
	{
	"order": 4,
	"attributes": [
	{
	"order": 1,
	"mandatory": false,
	"value": null,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Operation"
	},
	{...}
	],
	"label": "LAST_OPERATION"
	},
	{...}
	],
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"artifact-version": null,
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",

```
        "artifact-template-id": null,
        "@uri": "/nfvd/instance/artifact/11j99903-c2fc-4450-6852-b5e7022lk89h",
        "@id": "11j99903-c2fc-4450-6852-b5e7022lk89h"
      },
    {...}
  ],
  "relationship-instances":    [
          {
        "categories": [],
        "status":         {
          "enabled": true,
          "label": "DISABLED",
          "visible-label": "DISABLED"
        },
        "creation-timestamp": "2015-04-01T14:23:30.153+0200",
        "update-timestamp": "2015-04-01T14:23:32.273+0200",
        "relationship-type": "INCLUDE",
        "parent-artifact-id": "11j99903-c2fc-4450-6852-b5e7022lk890",
        "child-artifact-id": "11j99903-c2fc-4450-6852-b5e7022lk892",
        "@uri": "/nfvd/instance/relationship/60",
        "@id": "60"
      },
    {...}
  ],
  "@uri": "/nfvd/instance/null",
  "@id": "null"
}

<instance id="null" uri="/nfvd/instance/null" xmlns="http://www.hp.com/nfvd">
  <artifact-instances>
    <artifact-instance id="11j99903-c2fc-4450-6852-b5e7022lk892" uri="/nfvd/instance/artifact/11j99903-
c2fc-4450-6852-b5e7022lk892">
        <artifact-definition>
          <category>GENERIC</category>
          <family>VIRTUAL_MACHINE</family>
        </artifact-definition>
        <status>
          <enabled>true</enabled>
          <label>ENABLED</label>
          <visible-label>ENABLED</visible-label>
        </status>
        <categories>
          <category>
            <attributes>
              <attribute>
                <label>Operation</label>
                <mandatory>false</mandatory>
                <order>1</order>
                <type>TEXT</type>
                <unit>TEXT</unit>
              </attribute>
             [...]
            </attributes>
            <label>LAST_OPERATION</label>
            <order>5</order>
          </category>
          [...]
        </categories>
        <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp>
        <id>11j99903-c2fc-4450-6852-b5e7022lk892</id>
        <identifier>VIRTUAL_MACHINE-4450-6852</identifier>
        <physical>false</physical>
        <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp>
```

	</artifact-instance> [...] </artifact-instances> <relationship-instances> <relationship-instance id="59" uri="/nfvd/instance/relationship/59"> <categories/> <child-artifact-id>11j99903-c2fc-4450-6852-b5e7022lk890</child-artifact-id> <creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp> <parent-artifact-id>11j99903-c2fc-4450-6852-b5e7022lk89h</parent-artifact-id> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <relationship-type>INCLUDE</relationship-type> <update-timestamp>2015-04-01T14:29:35.665+0200</update-timestamp> </relationship-instance> [...] </relationship-instances> </instance>
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404: Instance Id not found.

4.11 Update an instance tree

4.11.1 XML

Description	Updates a instance tree.
HTTP method	PUT
Resource	/tree/{id}
Query Parameters	Not needed
Relevant Headers	Content-type: application/xml Accept: application/xml
Request Body	<instance xmlns="http://www.hp.com/nfvd"> <artifact-instances/> <description>test description 4450-6852-updated</description> <id>5290c511-72ab-4450-6852-fe1b182fd130</id> <language-code>en_EN</language-code> <name>test-4450-6852</name> <relationship-instances/> <type>VNF</type> </instance>
RAW request example	PUT http://localhost:8080/nfvd/instance/tree/5290c511-72ab-4450-6852-fe1b182fd130 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Content-Length: 412 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <instance xmlns="http://www.hp.com/nfvd"> <artifact-instances/> <description>test description 4450-6852-updated</description> <id>5290c511-72ab-4450-6852-fe1b182fd130</id> <language-code>en_EN</language-code> <name>test-4450-6852</name> <relationship-instances/> <type>VNF</type> </instance>
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 438 Date: Fri, 08 May 2015 09:46:06 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <instance id="5290c511-72ab-4450-6852-fe1b182fd130" uri="/nfvd/instance/5290c511-72ab-4450-6852-fe1b182fd130" xmlns="http://www.hp.com/nfvd">"> <artifact-instances/> <description>test description 4450-6852-updated</description> <id>5290c511-72ab-4450-6852-fe1b182fd130</id> <language-code>en_EN</language-code> <name>test-4450-6852</name> <relationship-instances/> <type>VNF</type> </instance>
Possible errors	HTTP 500: In case processing error in server side..

	HTTP 400: Bad parameters
	HTTP 404: Instance Id not found.

4.11.2 JSON

Description	Updates a instance TREE.	
HTTP method	PUT	
Resource	/tree/{id}	
Query Parameters	Id	mandatory
Relevant Headers	Content-type: application/json Accept: application/json	

Request Body	{
	"id": "2290c511-72ab-4450-6852-fe1b182fd130",
	"name": "test-4450-6852-updated",
	"type": "VNF",
	"description": "test description 4450-6852",
	"language-code": "en_EN",
	"relationship-instances": [],
	"artifact-instances": []
	}	

RAW request example	PUT http://localhost:8080/nfvd/instance/tree/2290c511-72ab-4450-6852-fe1b182fd130 HTTP/1.1
	Accept-Encoding: gzip,deflate
	Content-Type: application/json
	Accept: application/json
	Content-Length: 251
	Host: localhost:8080
	Connection: Keep-Alive
	User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
	
	<?xml version="1.0" encoding="UTF-8" standalone="yes"?> {
	"id": "2290c511-72ab-4450-6852-fe1b182fd130",
	"name": "test-4450-6852-updated",
	"type": "VNF",
	"description": "test description 4450-6852",
	"language-code": "en_EN",
	"relationship-instances": [],
	"artifact-instances": []
	}	

RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Fri, 08 May 2015 09:58:43 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> { "id": "2290c511-72ab-4450-6852-fe1b182fd130", "name": "test-4450-6852-updated", "type": "VNF", "description": "test description 4450-6852", "language-code": "en_EN", "artifact-instances": [],	

	"relationship-instances": [], "@uri": "/nfvd/instance/2290c511-72ab-4450-6852-fe1b182fd130", "@id": "2290c511-72ab-4450-6852-fe1b182fd130"}
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404: Instance Id not found.

4.12 Delete tree by id

4.12.1 XML – JSON

Description	Deletes a instance tree by id.
HTTP method	DELETE
Resource	/tree/{id}
Query Parameters	Not needed
Relevant Headers	Not needed
Request Body	Not needed
RAW request example	DELETE http://localhost:8080/nfvd/instance/tree/2290c511-72ab-4450-6852-fe1b182fd130 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 10:07:53 GMT
Possible errors	HTTP 500: In case processing error in server side
	HTTP 400: Bad parameters
	HTTP 404: Instance Id not found.

4.13 Delete tree and its content by id

4.13.1 XML – JSON

Description	Deletes a instance tree and its content by id
HTTP method	DELETE
Resource	/tree/{id}/cascade
Query Parameters	Not needed
Relevant Headers	Not needed
Request Body	Not needed
RAW request example	DELETE http://localhost:8080/nfvd/instance/tree/60567497-aeb3-4152-a0f3-432037f84163/cascade HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 11:06:16 GMT
Possible errors	HTTP 500: In case processing error in server side
	HTTP 400: Bad parameters
	HTTP 404: Instance Id not found.

4.14 Delete a instance tree by tree id and element id

4.14.1 XML – JSON

Description	Deletes a instance/relationship tree by tree id and element id	
HTTP method	DELETE	
Resource	/tree/{id}/elementId	
Query Parameters	artifact	Mandatory (default=false, relationship)
Relevant Headers	Not needed	
Request Body	Not needed	
RAW request example	DELETE http://localhost:8080/nfvd/instance/tree/o990c511-72ab-7103-2429-fe1b182fd130/11j99903-c2fc-7103-2429-b5e7022lk892 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Fri, 08 May 2015 11:13:54 GMT	
Possible errors	HTTP 500: In case processing error in server side	
	HTTP 400: Bad parameters	
	HTTP 404: Instance or elementId not found.	

4.15 Artifacts

4.15.1 Get an artifact instance by path

4.15.1.1 XML

Description	Gets an artifact instance by path	
HTTP method	GET	
Resource	/instance/artifact/query/path	
Query Parameters	id	mandatory
	expression	mandatory
Relevant Headers		
	Accept: application/xml	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/query/path?id=11j99903-c2fc-3512-1629-b5e7022lk89h&expression=VNF%3EVNF_COMPONENT%3EVIRTUAL_MACHINE HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 3724 Date: Sun, 10 May 2015 20:28:54 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes<artifact-instances xmlns="http://www.hp.com/nfvd"> <artifact-instance id="11j99903-c2fc-3512-1629-b5e7022lk892" uri="/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk892"> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_MACHINE</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> <!--[...] --> </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>11j99903-c2fc-3512-1629-b5e7022lk892</id> <identifier>VIRTUAL_MACHINE-3512-1629</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-instance> </artifact-instances>	
Possible errors	HTTP 500: In case processing error in server side..	
	HTTP 400: Bad parameters	

	HTTP 404: Artifact instance Instance Id not found.

4.15.1.2 JSON

Description	Gets an artifact instance by path	
HTTP method	GET	
Resource	/instance/artifact/query/path	
Query Parameters	id	mandatory
	expression	mandatory
Relevant Headers		
	Accept: application/json	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/query/path?id=11j99903-c2fc-3512-1629-b5e7022lk89h&expression=VNF%3EVNF_COMPONENT%3EVIRTUAL_MACHINE HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Sun, 10 May 2015 20:35:45 GMT
	
	{"artifact-instances": [{
	"id": "11j99903-c2fc-3512-1629-b5e7022lk892",
	"identifier": "VIRTUAL_MACHINE-3512-1629",
	"physical": false,
	"categories": [
	{...}
	],
	"artifact-definition": {
	"family": "VIRTUAL_MACHINE",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"artifact-version": null,
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"artifact-template-id": null,
	"@uri": "/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk892",
	"@id": "11j99903-c2fc-3512-1629-b5e7022lk892"
	}]}	

Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404: Artifact instance id not found.

4.15.2 Get artifact's parents

4.15.2.1 XML

Description	Return a list of artifacts which are parents of an artifact with the given id, reached by the given relationships and matches the definition	
HTTP method	GET	
Resource	/instance/artifact/query/parents	
Query Parameters	id	mandatory
	relationship	optional
	definition	optional
Relevant Headers		
	Accept: application/xml	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/query/parents?id=11j99903-c2fc-3512-1629-b5e7022lk892&relationship=INCLUDE&definition=VNF_COMPONENT HTTP/1.1 Accept-Encoding: gzip,deflate Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 2457 Date: Sun, 10 May 2015 20:47:16 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"> <artifact-instances xmlns="http://www.hp.com/nfvd"> <artifact-instance id="11j99903-c2fc-3512-1629-b5e7022lk890" uri="/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk890"> <artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> <!-- [...]--> </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>11j99903-c2fc-3512-1629-b5e7022lk890</id> <identifier>VNF_COMPONENT-3512-1629</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-instance> </artifact-instances>	
Possible errors	HTTP 500: In case processing error in server side..	
	HTTP 400: Bad parameters	

	HTTP 404: Artifact instance id not found.

4.15.2.2 JSON

Description	Return a list of artifacts which are parents of an artifact with the given id, reached by the given relationships and matches the definition	
HTTP method	GET	
Resource	/instance/artifact/query/parents	
Query Parameters	id	mandatory
	relationship	optional
	definition	optional
Relevant Headers		
	Accept: application/json	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/query/parents?id=11j99903-c2fc-3512-1629-b5e7022lk892&relationship=INCLUDE&definition=VNF_COMPONENT HTTP/1.1 Accept-Encoding: gzip,deflate Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Sun, 10 May 2015 20:53:17 GMT
	
	<?xml version="1.0" encoding="UTF-8" standalone="yes> {"artifact-instances": [{
	"id": "11j99903-c2fc-3512-1629-b5e7022lk892",
	"identifier": "VIRTUAL_MACHINE-3512-1629",
	"physical": false,
	"categories": [
	{...}
	],
	"artifact-definition": {
	"family": "VIRTUAL_MACHINE",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"artifact-version": null,
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"artifact-template-id": null,
	"@uri": "/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk892",
	"@id": "11j99903-c2fc-3512-1629-b5e7022lk892"
	}]}	

Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404: Artifact instance id not found.

4.15.3 Get artifact's children

4.15.3.1 XML

Description	Return a list of Artifact who are children of given id, reached by the given relationships and match the definition	
HTTP method	GET	
Resource	/instance/artifact/query/children	
Query Parameters	id	mandatory
	relationship	optional
	definition	optional
Relevant Headers		
	Accept: application/xml	
Request Body		
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/query/children?id=11j99903-c2fc-3512-1629-b5e7022lk89h&relationship=INCLUDE&definition=VNF_COMPONENT HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 2457 Date: Sun, 10 May 2015 21:00:26 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"> <artifact-instances xmlns="http://www.hp.com/nfvd"> <artifact-instance id="11j99903-c2fc-3512-1629-b5e7022lk890" uri="/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk890"> <artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> <!-- [...]--> </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>11j99903-c2fc-3512-1629-b5e7022lk890</id> <identifier>VNF_COMPONENT-3512-1629</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-instance> </artifact-instances>	
Possible errors	HTTP 500: In case processing error in server side..	

	HTTP 400: Bad parameters
	HTTP 404: Artifact instance id not found.

4.15.3.2 JSON

Description	Return a list of Artifact who are parents of given id, reached by the given relationships and match the definition	
HTTP method	GET	
Resource	/instance/artifact/query/parents	
Query Parameters	id	mandatory
	relationship	optional
	definition	optional
Relevant Headers		
	Accept: application/json	
Request Body		
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/query/children?id=11j99903-c2fc-3512-1629-b5e7022lk89h&relationship=INCLUDE&definition=VNF_COMPONENT HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Sun, 10 May 2015 21:01:13 GMT
	
	<?xml version="1.0" encoding="UTF-8" standalone="yes> {"artifact-instances": [{
	"id": "11j99903-c2fc-3512-1629-b5e7022lk892",
	"identifier": "VIRTUAL_MACHINE-3512-1629",
	"physical": false,
	"categories": [
	{...}
	],
	"artifact-definition": {
	"family": "VIRTUAL_MACHINE",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"artifact-version": null,
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"	

	}, "creation-timestamp": "2015-01-14T14:12:25.000+0100", "update-timestamp": "2015-01-14T14:12:35.000+0100", "artifact-template-id": null, "@uri": "/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk892", "@id": "11j99903-c2fc-3512-1629-b5e7022lk892" }]}
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404: Artifact instance id not found.

4.15.4 Get artifact's parents recursively

4.15.4.1 XML

Description	Return a list of artifacts which are parents of an artifact with the given id, reached by the given relationships and match the definition recursively	
HTTP method	GET	
Resource	/instance/artifact/query/parents/recursive	
Query Parameters	id	mandatory
	relationshipFilterType	optional
	relationship	optional
	definition	optional
Relevant Headers		
	Accept: application/xml	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/query/parents/recursive?id=11j99903-c2fc-3512-1629-b5e7022lk892&relationshipFilterType=INCLUDE&relationship=INCLUDE&definition=VNF HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 3165 Date: Sun, 10 May 2015 21:22:00 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"> <artifact-instances xmlns="http://www.hp.com/nfvd"> <artifact-instance id="11j99903-c2fc-3512-1629-b5e7022lk89h" uri="/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk89h"> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> **<!-- [...] -->** </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>11j99903-c2fc-3512-1629-b5e7022lk89h</id> <identifier>VNF-3512-1629</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-instance> </artifact-instances>	
Possible errors	HTTP 500: In case processing error in server side..	

	HTTP 400: Bad parameters
	HTTP 404: Artifact instance id not found.

4.15.4.2 JSON

Description	Return a list of artifacts which are parents of an artifact with the given id, reached by the given relationships and match the definition recursively	
HTTP method	GET	
Resource	/instance/artifact/query/parents/recursive	
Query Parameters	id	mandatory
	relationshipFilterType	optional
	relationship	optional
	definition	optional
Relevant Headers		
	Accept: application/json	
Request Body		
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/query/parents/recursive?id=11j99903-c2fc-3512-1629-b5e7022lk892&relationshipFilterType=INCLUDE&relationship=INCLUDE&definition=VNF HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Content-Length: 3165
	Date: Sun, 10 May 2015 21:22:00 GMT
	
	<?xml version="1.0" encoding="UTF-8" standalone="yes> {"artifact-instances": [{
	"id": "11j99903-c2fc-3512-1629-b5e7022lk89h",
	"identifier": "VNF-3512-1629",
	"physical": false,
	"categories":
	{...}
	,
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"artifact-version": null,
	"status": {
	"enabled": true,
	"label": "ACTIVE",	

	"visible-label": "ACTIVE" }, "creation-timestamp": "2015-01-14T14:12:25.000+0100", "update-timestamp": "2015-01-14T14:12:35.000+0100", "artifact-template-id": null, "@uri": "/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk89h", "@id": "11j99903-c2fc-3512-1629-b5e7022lk89h" }]}
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404: Artifact instance id not found.

4.15.5 Get artifact's children recursively

4.15.5.1 XML

Description	Return a list of artifacts which are children of an artifact with the given id, reached by the given relationships and match the definition recursively	
HTTP method	GET	
Resource	/instance/artifact/query/children/recursive	
Query Parameters	id	mandatory
	relationshipFilterType	optional
	relationship	optional
	definition	optional
Relevant Headers		
	Accept: application/xml	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/query/children/recursive?id=11j99903-c2fc-3512-1629-b5e7022lk89h&relationshipFilterType=INCLUDE&relationship=INCLUDE&definition=VIRTUAL_MACHINE HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 3724 Date: Sun, 10 May 2015 21:42:34 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"> <artifact-instances xmlns="http://www.hp.com/nfvd"> <artifact-instance id="11j99903-c2fc-3512-1629-b5e7022lk892" uri="/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk892"> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_MACHINE</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> <!-- [...] --> </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>11j99903-c2fc-3512-1629-b5e7022lk892</id> <identifier>VIRTUAL_MACHINE-3512-1629</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-instance> </artifact-instances>	
Possible errors	HTTP 500: In case processing error in server side..	

	HTTP 400: Bad parameters
	HTTP 404: Artifact instance id not found.

4.15.5.2 JSON

Description	Return a list of artifacts which are children of an artifact with the given id, reached by the given relationships and match the definition recursively	
HTTP method	GET	
Resource	/instance/artifact/query/children/recursive	
Query Parameters	id	mandatory
	relationshipFilterType	optional
	relationship	optional
	definition	optional
Relevant Headers		
	Accept: application/json	
Request Body		
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/query/children/recursive?id=11j99903-c2fc-3512-1629-b5e7022lk89h&relationshipFilterType=INCLUDE&relationship=INCLUDE&definition=VIRTUAL_MACHINE HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Sun, 10 May 2015 21:46:23 GMT
	
	<?xml version="1.0" encoding="UTF-8" standalone="yes> {"artifact-instances": [{
	"id": "11j99903-c2fc-3512-1629-b5e7022lk892",
	"identifier": "VIRTUAL_MACHINE-3512-1629",
	"physical": false,
	"categories": [
	// {...}
	],
	"artifact-definition": {
	"family": "VIRTUAL_MACHINE",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"artifact-version": null,
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"artifact-template-id": null,
	"@uri": "/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk892",
	"@id": "11j99903-c2fc-3512-1629-b5e7022lk892"
	}]}	

Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404: Artifact instance id not found.

4.15.6 Get instance artifacts by miscellaneous parameters

4.15.6.1 XML

Description	Return a list of instance artifacts that match miscellaneous parameters	
HTTP method	GET	
Resource	/instance/artifact/query/parameters	
Query Parameters	definition	mandatory
	status	optional
	artifactTemplateId	optional
	treeId	optional
	attributeFilters	optional
Relevant Headers		
	Accept: application/xml	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/query/parameters?definition=VNF%3AGENERIC&status=ENABLED&attributeFilter=Result_code HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Transfer-Encoding: chunked Date: Mon, 11 May 2015 07:41:36 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes> <artifact-instances xmlns="http://www.hp.com/nfvd"> <artifact-instance id="83968569-b00d-4335-8bc3-6ea443cbb45e" uri="/nfvd/instance/artifact/83968569-b00d-4335-8bc3-6ea443cbb45e"> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> <!-- [...] --> </categories> <creation-timestamp>2015-04-10T10:06:57.835+0200</creation-timestamp> <id>83968569-b00d-4335-8bc3-6ea443cbb45e</id> <identifier>VNF:83968569-b00d-4335-8bc3-6ea443cbb45e</identifier> <physical>false</physical> <update-timestamp>2015-04-10T10:06:58.175+0200</update-timestamp> </artifact-instance> <!-- [...] --> </artifact-instances>	
Possible errors	HTTP 500: In case processing error in server side..	

	HTTP 400: Bad parameters
	HTTP 404: Artifact instance id not found.

4.15.6.2 JSON

Description	Return a list of instance artifacts that match miscellaneous parameters	
HTTP method	GET	
Resource	/instance/artifact/query/parameters	
Query Parameters	definition	mandatory
	status	optional
	artifactTemplateId	optional
	treeId	optional
	attributeFilters	optional
Relevant Headers	Accept: application/json	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/query/parameters?definition=VNF%3AGENERIC&status=ENABLED &attributeFilter=Result_code HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 07:47:57 GMT
	
	<?xml version="1.0" encoding="UTF-8" standalone="yes> {"artifact-instances": [
	{
	"id": "83968569-b00d-4335-8bc3-6ea443cbb45e",
	"identifier": "VNF:83968569-b00d-4335-8bc3-6ea443cbb45e",
	"physical": false,
	"categories": [
	{...}
	],
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"artifact-version": null,
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"	

	}, "creation-timestamp": "2015-04-10T10:06:57.835+0200", "update-timestamp": "2015-04-10T10:06:58.175+0200", "artifact-template-id": null, "@uri": "/nfvd/instance/artifact/83968569-b00d-4335-8bc3-6ea443cbb45e", "@id": "83968569-b00d-4335-8bc3-6ea443cbb45e" }, {...}]}
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404: Artifact instance id not found.

4.15.7 Get instance artifact by Id

4.15.7.1 XML

Description	Return an instance artifact that matches the id parameter.
HTTP method	GET
Resource	/instance/artifact/{id}
Query Parameters	Not needed
Relevant Headers	Accept: application/xml
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk890 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 2416 Date: Mon, 11 May 2015 07:55:09 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <artifact-instance id="11j99903-c2fc-3512-1629-b5e7022lk890" uri="/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk890" xmlns="http://www.hp.com/nfvd"> <artifact-definition> <category>GENERIC</category> <family>VNF_COMPONENT</family> </artifact-definition> <status> <enabled>true</enabled> <label>ACTIVE</label> <visible-label>ACTIVE</visible-label> </status> <categories> <!-- [...] --> </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>11j99903-c2fc-3512-1629-b5e7022lk890</id> <identifier>VNF_COMPONENT-3512-1629</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-instance>
Possible errors	HTTP 500: In case processing error in server side.. HTTP 400: Bad parameters HTTP 404 Artifact instance id not found.

4.15.7.2 JSON

Description	Return an instance artifact that matches the id parameter.	
HTTP method	GET	
Resource	/instance/artifact/{id}	
Query Parameters	id	mandatory
Relevant Headers	Accept: application/json	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk89h HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 07:54:19 GMT
	
	{
	"id": "11j99903-c2fc-3512-1629-b5e7022lk89h",
	"identifier": "VNF-3512-1629",
	"physical": false,
	"categories": [
	{...}
	],
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"artifact-version": null,
	"status": {
	"enabled": true,
	"label": "ACTIVE",
	"visible-label": "ACTIVE"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"artifact-template-id": null,
	"@uri": "/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk89h",
	"@id": "11j99903-c2fc-3512-1629-b5e7022lk89h"
	}	

Possible errors	HTTP 500: In case processing error in server side..	
	HTTP 400: Bad parameters	
	HTTP 404: Artifact instance id not found.	

4.15.8 Get instance artifact by parameters

4.15.8.1 XML

Description	Return instance artifact based on artifactDefinition, and exactMatching,	
HTTP method	GET	
Resource	/instance/artifact/query/parameters	
Query Parameters	family	optional
	category	optional
	group	optional
	type	optional
	subtype	optional
Relevant Headers		
	Accept: application/xml	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/instance/artifact?family=VNF_ENDPOINT&category=BIDIRECTIONAL&exactMatching=FALSE HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Transfer-Encoding: chunked Date: Mon, 11 May 2015 08:21:09 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <artifact-instances xmlns="http://www.hp.com/nfvd"> <artifact-instance id="6d83515b-3c73-4120-85f6-d35692885d18" uri="/nfvd/instance/artifact/6d83515b-3c73-4120-85f6-d35692885d18"> <artifact-definition> <category>BIDIRECTIONAL</category> <family>VNF_ENDPOINT</family> <group>OPENSTACK</group> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> [...] </categories> <creation-timestamp>2015-04-10T10:06:59.517+0200</creation-timestamp> <id>6d83515b-3c73-4120-85f6-d35692885d18</id> <identifier>VNF_ENDPOINT:6d83515b-3c73-4120-85f6-d35692885d18</identifier> <physical>false</physical> <update-timestamp>2015-04-10T10:06:59.767+0200</update-timestamp> </artifact-instance> [...] </artifact-instances>	

Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404: Artifact instance id not found.

4.15.8.2 JSON

Description	Return instance artifact based on artifactDefinition, and exactMatching,	
HTTP method	GET	
Resource	/instance/artifact/query/parameters	
Query Parameters	family	optional
	category	optional
	group	optional
	type	optional
	subtype	optional
Relevant Headers	Accept: application/json	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/instance/artifact?family=VNF_ENDPOINT&category=BIDIRECTIONAL&group=OPENSTACK HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 08:38:41 GMT
	
	{"artifact-instances": [
	{
	"id": "6d83515b-3c73-4120-85f6-d35692885d18",
	"identifier": "VNF_ENDPOINT:6d83515b-3c73-4120-85f6-d35692885d18",
	"physical": false,
	"categories": [
	[...]
	],
	"artifact-definition": {
	"family": "VNF_ENDPOINT",
	"category": "BIDIRECTIONAL",
	"group": "OPENSTACK",
	"type": null,
	"subtype": null,
	"version": null
	},
	"artifact-version": null,
	"status": {	

	"enabled": true, "label": "ENABLED", "visible-label": "ENABLED" }, "creation-timestamp": "2015-04-10T10:06:59.517+0200", "update-timestamp": "2015-04-10T10:06:59.767+0200", "artifact-template-id": null, "@uri": "/nfvd/instance/artifact/6d83515b-3c73-4120-85f6-d35692885d18", "@id": "6d83515b-3c73-4120-85f6-d35692885d18" }, {...}]}
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404: Instance artifact id not found.

4.15.9 Get tree ids

4.15.9.1 XML

Description	Get tree ids in which the artifact instance id belongs to.
HTTP method	GET
Resource	/instance/artifact/{id}/tree
Query Parameters	Not needed
Relevant Headers	Accept: application/xml
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk892/tree HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 150 Date: Mon, 11 May 2015 09:13:19 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <uuids xmlns="http://www.hp.com/nfvd"> <uuid>o990c511-72ab-3512-1629-fe1b182fd130</uuid> </uuids>
Possible errors	HTTP 500: In case processing error in server side.. HTTP 400: Bad parameters HTTP 404: Artifact instance id not found.

4.15.9.2 JSON

Description	Get tree ids in which the artifact instance id belongs to.
HTTP method	GET
Resource	/instance/artifact/{id}/tree
Query Parameters	Not needed
Relevant Headers	Accept: application/json
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk892/tree HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Mon, 11 May 2015 09:15:16 GMT {"uuids":["o990c511-72ab-3512-1629-fe1b182fd130"]}
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404 Artifact instance id not found.

4.15.10 Get an artifact instance attribute

4.15.10.1 XML

Description	Return an artifact instance attribute.
HTTP method	GET
Resource	/instance/artifact/{id}/{cat}/{attr}
Query Parameters	Not needed
Relevant Headers	Accept: application/xml
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/18a0d62f-6bb8-4f54-8ba2-fc3aad17beec/GENERAL/Type HTTP/1.1 Accept-Encoding: gzip,deflate Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 206 Date: Mon, 11 May 2015 09:23:17 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <attribute xmlns="http://www.hp.com/nfvd"> <label>Type</label> <mandatory>false</mandatory> <order>2</order> <type>TEXT</type> <unit>TEXT</unit> </attribute>
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404: Artifact instance Instance Id not found.

4.15.10.2 JSON

Description	Return an artifact instance attribute.	
HTTP method	GET	
Resource	/instance/artifact/{id}/{cat}/{attr}	
Query Parameters	id	mandatory
	cat	mandatory
	attr	mandatory

Relevant Headers	Accept: application/json
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/instance/artifact/18a0d62f-6bb8-4f54-8ba2-fc3aad17beec/GENERAL/Type HTTP/1.1 Accept-Encoding: gzip,deflate Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Mon, 11 May 2015 09:27:28 GMT {"order":2,"mandatory":false,"value":null,"description":null,"type":"TEXT","unit":"TEXT","label":"Type"}
Possible errors	HTTP 500: In case processing error in server side.. HTTP 400: Bad parameters HTTP 404: Artifact instance id not found.

4.15.11 Create Artifact Instance

4.15.11.1 XML

Description	Creates a new ArtifactInstance.
HTTP method	POST
Resource	/instance/artifact
Query Parameters	Not needed
Relevant Headers	Accept: application/xml Content-type: application/xml
Request Body	<?xml version="1.0" encoding="UTF-8" standalone="yes"?> <artifact-instances xmlns="http://www.hp.com/nfvd"> <artifact-instance> <artifact-definition> <category>HELION</category> <family>VIM</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> <category> <attributes> <attribute> <label>Login</label> <mandatory>true</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Password</label> <mandatory>true</mandatory> <order>2</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> </attributes> <label>CREDENTIALS</label> <order>3</order> </category> <category> <attributes> <attribute> <label>Host</label> <mandatory>true</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Url</label> <mandatory>true</mandatory> <order>3</order> <type>TEXT</type> <unit>TEXT</unit>

```
                    </attribute>
                    <attribute>
                        <label>Type</label>
                        <mandatory>true</mandatory>
                        <order>2</order>
                        <type>TEXT</type>
                        <unit>TEXT</unit>
                    </attribute>
                    <attribute>
                        <label>Name</label>
                        <mandatory>false</mandatory>
                        <order>1</order>
                        <type>TEXT</type>
                        <unit>TEXT</unit>
                    </attribute>
                </attributes>
                <label>GENERAL</label>
                <order>1</order>
            </category>
            <category>
                <attributes>
                    <attribute>
                        <label>Source</label>
                        <mandatory>true</mandatory>
                        <order>3</order>
                        <type>TEXT</type>
                        <unit>TEXT</unit>
                    </attribute>
                    <attribute>
                        <label>LifeCycle_State</label>
                        <mandatory>false</mandatory>
                        <order>4</order>
                        <type>TEXT</type>
                        <unit>TEXT</unit>
                    </attribute>
                    <attribute>
                        <label>Operational_Status</label>
                        <mandatory>false</mandatory>
                        <order>1</order>
                        <type>TEXT</type>
                        <unit>TEXT</unit>
                    </attribute>
                    <attribute>
                        <label>Operational_Status_Date</label>
                        <mandatory>false</mandatory>
                        <order>2</order>
                        <type>Date</type>
                        <unit>Date</unit>
                    </attribute>
                    <attribute>
                        <label>LifeCycle_State_Date</label>
                        <mandatory>false</mandatory>
                        <order>5</order>
                        <type>Date</type>
                        <unit>Date</unit>
                    </attribute>
                    <attribute>
                        <label>additionalText</label>
                        <mandatory>false</mandatory>
                        <order>6</order>
                        <type>TEXT</type>
                        <unit>TEXT</unit>
                    </attribute>
```

```
                                    </attributes>
                                    <label>STATUS</label>
                                    <order>2</order>
                            </category>
                    </categories>
                    <creation-timestamp>2015-04-10T13:09:38.716+0200</creation-timestamp>
                    <id>3341b58d-33a4-4904-a6ea-9a1ffc81c502</id>
                    <identifier>VIM:3341b58d-33a4-4904-a6ea-9a1ffc81c502</identifier>
                    <physical>false</physical>
                    <update-timestamp>2015-04-10T13:09:38.716+0200</update-timestamp>
</artifact-instance>
</artifact-instances>
```


RAW request example

```
POST http://localhost:8080/nfvd/instance/artifact HTTP/1.1
Accept-Encoding: gzip,deflate
Content-type: application/xml
Accept: application/xml
Content-Length: 3004
Host: localhost:8080
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

SEE REQUEST-BODY
```

RAW Success response example

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Content-Type: application/xml
Content-Length: 2525
Date: Mon, 11 May 2015 09:35:06 GMT



<?xml version="1.0" encoding="UTF-8" standalone="yes"?> <artifact-instances
xmlns="http://www.hp.com/nfvd">
  <artifact-instance id="3341b58d-33a4-4904-a6ea-9a1ffc81c502" uri="/nfvd/instance/artifact/3341b58d-33a4-
4904-a6ea-9a1ffc81c502">
    <artifact-definition>
      <category>HELION</category>
      <family>VIM</family>
    </artifact-definition>
    <status>
      <enabled>true</enabled>
      <label>ENABLED</label>
      <visible-label>ENABLED</visible-label>
    </status>
    <categories>
      […]
    </categories>
    <creation-timestamp>2015-05-11T11:34:48.537+0200</creation-timestamp>
    <id>3341b58d-33a4-4904-a6ea-9a1ffc81c502</id>
    <identifier>VIM:3341b58d-33a4-4904-a6ea-9a1ffc81c502</identifier>
    <physical>false</physical>
    <update-timestamp>2015-05-11T11:34:48.745+0200</update-timestamp>
  </artifact-instance>
</artifact-instances>
```

Possible errors

- HTTP 500: In case processing error in server side..
- HTTP 400: Bad parameters

	HTTP 409: Conflict. Artifact instance Instance Id already exists.

4.15.11.2 JSON

Description	Creates a new ArtifactInstance.
HTTP method	POST
Resource	/instance/artifact
Query Parameters	Not needed
Relevant Headers	Accept: application/json Content-type: application/json

Request Body	{"artifact-instances": [{
	"id": "7d83515b-3c73-4120-85f6-d35692885d18",
	"identifier": "VNF_ENDPOINT:7d83515b-3c73-4120-85f6-d35692885d18",
	"physical": false,
	"categories": [
	{
	"order": 1,
	"attributes": [
	{
	"order": 2,
	"mandatory": false,
	"value": null,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Type"
	},
	{
	"order": 3,
	"mandatory": false,
	"value": null,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Description"
	},
	{
	"order": 1,
	"mandatory": false,
	"value": null,
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Name"
	}
	],
	"label": "GENERAL"
	},
	{
	"order": 2,
	"attributes": [
	{
	"order": 6,
	"mandatory": false,

```
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "additionalText"
          },
                {
            "order": 3,
            "mandatory": true,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Source"
          },
                {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "LifeCycle_State_Date"
          },
                {
            "order": 4,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "LifeCycle_State"
          },
                {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "Operational_Status_Date"
          },
                {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operational_Status"
          }
        ],
        "label": "STATUS"
      }
    ],
    "artifact-definition":      {
      "family": "VNF_ENDPOINT",
      "category": "BIDIRECTIONAL",
      "group": "OPENSTACK",
      "type": null,
      "subtype": null,
      "version": null
    },
```

	"artifact-version": null,
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"artifact-template-id": null,
	"@uri": "/nfvd/instance/artifact/7d83515b-3c73-4120-85f6-d35692885d18",
	"@id": "7d83515b-3c73-4120-85f6-d35692885d18"
	}
	]
	}

RAW request example	POST http://localhost:8080/nfvd/instance/artifact HTTP/1.1 Accept-Encoding: gzip,deflate Content-type: application/json Accept: application/json Content-Length: 3749 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) SEE REQUEST-BODY

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 10:06:48 GMT
	
	{"artifact-instances": [{
	"id": "7d83515b-3c73-4120-85f6-d35692885d18",
	"identifier": "VNF_ENDPOINT:7d83515b-3c73-4120-85f6-d35692885d18",
	"physical": false,
	"categories": [
	{...}
	],
	"artifact-definition": {
	"family": "VNF_ENDPOINT",
	"category": "BIDIRECTIONAL",
	"group": "OPENSTACK",
	"type": null,
	"subtype": null,
	"version": null
	},
	"artifact-version": null,
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-05-11T12:06:27.653+0200",
	"update-timestamp": "2015-05-11T12:06:28.108+0200",
	"artifact-template-id": null,
	"@uri": "/nfvd/instance/artifact/7d83515b-3c73-4120-85f6-d35692885d18",
	"@id": "7d83515b-3c73-4120-85f6-d35692885d18"
	}]}

Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad request body

	HTTP 409: Conflict. Artifact instance Instance Id already exists.

4.15.12 Create ArtifactInsance with a new UUID

4.15.12.1 XML

Description	Creates a new ArtifactInstance with a new UUID
HTTP method	POST
Resource	/instance/artifact/uuid
Query Parameters	Not needed
Relevant Headers	Accept: application/xml Content-type: application/xml
Request Body	<?xml version="1.0" encoding="UTF-8" standalone="yes"?> <artifact-instances xmlns="http://www.hp.com/nfvd"> <artifact-instance> <artifact-definition> <category>HELION</category> <family>VIM</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> <category> <attributes> <attribute> <label>Login</label> <mandatory>true</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Password</label> <mandatory>true</mandatory> <order>2</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> </attributes> <label>CREDENTIALS</label> <order>3</order> </category> <category> <attributes> <attribute> <label>Host</label> <mandatory>true</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Url</label> <mandatory>true</mandatory> <order>3</order> <type>TEXT</type> <unit>TEXT</unit>

```
                    </attribute>
                    <attribute>
                        <label>Type</label>
                        <mandatory>true</mandatory>
                        <order>2</order>
                        <type>TEXT</type>
                        <unit>TEXT</unit>
                    </attribute>
                    <attribute>
                        <label>Name</label>
                        <mandatory>false</mandatory>
                        <order>1</order>
                        <type>TEXT</type>
                        <unit>TEXT</unit>
                    </attribute>
                </attributes>
                <label>GENERAL</label>
                <order>1</order>
            </category>
            <category>
                <attributes>
                    <attribute>
                        <label>Source</label>
                        <mandatory>true</mandatory>
                        <order>3</order>
                        <type>TEXT</type>
                        <unit>TEXT</unit>
                    </attribute>
                    <attribute>
                        <label>LifeCycle_State</label>
                        <mandatory>false</mandatory>
                        <order>4</order>
                        <type>TEXT</type>
                        <unit>TEXT</unit>
                    </attribute>
                    <attribute>
                        <label>Operational_Status</label>
                        <mandatory>false</mandatory>
                        <order>1</order>
                        <type>TEXT</type>
                        <unit>TEXT</unit>
                    </attribute>
                    <attribute>
                        <label>Operational_Status_Date</label>
                        <mandatory>false</mandatory>
                        <order>2</order>
                        <type>Date</type>
                        <unit>Date</unit>
                    </attribute>
                    <attribute>
                        <label>LifeCycle_State_Date</label>
                        <mandatory>false</mandatory>
                        <order>5</order>
                        <type>Date</type>
                        <unit>Date</unit>
                    </attribute>
                    <attribute>
                        <label>additionalText</label>
                        <mandatory>false</mandatory>
                        <order>6</order>
                        <type>TEXT</type>
                        <unit>TEXT</unit>
                    </attribute>
```

	</attributes> <label>STATUS</label> <order>2</order> </category> </categories> <creation-timestamp>2015-04-10T13:09:38.716+0200</creation-timestamp> <identifier>VIM</identifier> <physical>false</physical> <update-timestamp>2015-04-10T13:09:38.716+0200</update-timestamp> </artifact-instance> </artifact-instances>
RAW request example	POST http://localhost:8080/nfvd/instance/artifact/uuid HTTP/1.1 Accept-Encoding: gzip,deflate Content-type: application/xml Accept: application/xml Content-Length: 2920 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <?xml version="1.0" encoding="UTF-8" standalone="yes"?> SEE REQUEST-BODY
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 2488 Date: Mon, 11 May 2015 10:45:05 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <artifact-instances xmlns="http://www.hp.com/nfvd"> <artifact-instance id="3341b58d-33a4-4904-a6ea-9a1ffc81c502" uri="/nfvd/instance/artifact/3341b58d-33a4-4904-a6ea-9a1ffc81c502"> <artifact-definition> <category>HELION</category> <family>VIM</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> […] </categories> <creation-timestamp>2015-05-11T12:45:02.435+0200</creation-timestamp> <id>e985c68b-7e37-4239-ab9e-b8273d7a15b9</id> <identifier>VIM</identifier> <physical>false</physical> <update-timestamp>2015-05-11T12:45:02.875+0200</update-timestamp> </artifact-instance> </artifact-instances>
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 409: Conflict. Artifact instance Instance Id already exists.

4.15.12.2 JSON

Description	Creates a new ArtifactInstance with a new UUID
HTTP method	POST
Resource	/instance/artifact/uuid
Query Parameters	Not needed
Relevant Headers	Accept: application/json Content-type: application/json
Request Body	{"artifact-instances": [{ "identifier": "VIRTUAL_MACHINE-4450-6855", "physical": false, "categories": [{ "order": 5, "attributes": [{ "order": 1, "mandatory": false, "value": null, "description": null, "type": "TEXT", "unit": "TEXT", "label": "Operation" }, { "order": 2, "mandatory": false, "value": null, "description": null, "type": "TEXT", "unit": "TEXT", "label": "Result_code" }, { "order": 3, "mandatory": false, "value": null, "description": null, "type": "TEXT", "unit": "TEXT", "label": "Result_description" }], "label": "LAST_OPERATION" }, { "order": 1, "attributes": [{ "order": 4, "mandatory": false, "value": null, "description": null,

```
            "type": "TEXT",
            "unit": "TEXT",
            "label": "hostname"
          },
                    {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Management_access"
          },
                    {
            "order": 6,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Image"
          },
                    {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Name"
          },
                    {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Description"
          },
                    {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Type"
          }
        ],
        "label": "GENERAL"
      },
          {
        "order": 4,
        "attributes":          [
                    {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "HOSTNAME"
```

```
        },
                {
        "order": 2,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "NAME"
        },
                {
        "order": 1,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "ID"
        }
      ],
      "label": "HYPERVISOR"
    },
        {
      "order": 3,
      "attributes":        [
                {
        "order": 1,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "ID"
        },
                {
        "order": 2,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "TEXT",
        "unit": "TEXT",
        "label": "NAME"
        }
      ],
      "label": "VIM"
    },
        {
      "order": 2,
      "attributes":        [
                {
        "order": 5,
        "mandatory": false,
        "value": null,
        "description": null,
        "type": "Date",
        "unit": "Date",
        "label": "LifeCycle_State_Date"
        },
                {
        "order": 1,
        "mandatory": false,
        "value": null,
        "description": null,
```

```
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Operational_Status"
              },
                        {
                "order": 4,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "LifeCycle_State"
              },
                        {
                "order": 3,
                "mandatory": true,
                "value": "test",
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "Source"
              },
                        {
                "order": 2,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "Date",
                "unit": "Date",
                "label": "Operational_Status_Date"
              },
                        {
                "order": 6,
                "mandatory": false,
                "value": null,
                "description": null,
                "type": "TEXT",
                "unit": "TEXT",
                "label": "additionalText"
              }
            ],
            "label": "STATUS"
          }
        ],
        "artifact-definition":        {
          "family": "VIRTUAL_MACHINE",
          "category": "GENERIC",
          "group": null,
          "type": null,
          "subtype": null,
          "version": null
        },
        "artifact-version": null,
        "status":        {
          "enabled": true,
          "label": "ENABLED",
          "visible-label": "ENABLED"
        },
        "creation-timestamp": "2015-01-14T14:12:25.000+0100",
        "update-timestamp": "2015-01-14T14:12:35.000+0100",
        "artifact-template-id": null
      }
    ]
```

	}
RAW request example	POST http://localhost:8080/nfvd/instance/artifact/uuid HTTP/1.1 Accept-Encoding: gzip,deflate Content-type: application/json Accept: application/json Content-Length: 8153 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) SEE REQUEST-BODY

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 10:58:06 GMT
	
	{"artifact-instances": [{
	"id": "bc362ee4-768e-46ba-872e-b19ac3676c7f",
	"identifier": "VIRTUAL_MACHINE-4450-6855",
	"physical": false,
	"categories": [
	[...]
	],
	"artifact-definition": {
	"family": "VIRTUAL_MACHINE",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"artifact-version": null,
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-05-11T12:58:06.478+0200",
	"update-timestamp": "2015-05-11T12:58:06.478+0200",
	"artifact-template-id": null,
	"@uri": "/nfvd/instance/artifact/bc362ee4-768e-46ba-872e-b19ac3676c7f",
	"@id": "bc362ee4-768e-46ba-872e-b19ac3676c7f"
	}]}

Possible errors	HTTP 500: In case processing error in server side.. HTTP 400: Bad parameters

4.15.13 Create new attribute value

4.15.13.1 XML

Description	Creates a new attribute.	
HTTP method	POST	
Resource	/instance/artifact/{id}/{cat}/{attr}	
Request parameter	value	mandatory
Relevant Headers		
	Accept: application/xml	
Request Body	Not needed	
RAW request example	POST http://localhost:8080/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk892/LAST_OPERATION/Operation?value=Test HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 3702 Date: Mon, 11 May 2015 12:07:05 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes <artifact-instance id="11j99903-c2fc-3512-1629-b5e7022lk892" uri="/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk892" xmlns="http://www.hp.com/nfvd"> <artifact-definition> <category>GENERIC</category> <family>VIRTUAL_MACHINE</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> [...] </categories> <creation-timestamp>2015-01-14T14:12:25.000+0100</creation-timestamp> <id>11j99903-c2fc-3512-1629-b5e7022lk892</id> <identifier>VIRTUAL_MACHINE-3512-1629</identifier> <physical>false</physical> <update-timestamp>2015-01-14T14:12:35.000+0100</update-timestamp> </artifact-instance>	
Possible errors	HTTP 500: In case processing error in server side..	
	HTTP 404: Artifact instance id not found	
	HTTP 409: Conflict. Attribute already exists.	

4.15.13.2 JSON

Description	Creates a new attribute.	
HTTP method	POST	
Resource	/instance/artifact/{id}/{cat}/{attr}	
	value	mandatory
Relevant Headers		
	Accept: application/json	
Request Body	Not needed	
RAW request example	POST http://localhost:8080/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk892/LAST_OPERATION/Operation?value=Test HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 12:21:28 GMT
	
	{
	"id": "11j99903-c2fc-3512-1629-b5e7022lk892",
	"identifier": "VIRTUAL_MACHINE-3512-1629",
	"physical": false,
	"categories": [
	{...}
	],
	"artifact-definition": {
	"family": "VIRTUAL_MACHINE",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"artifact-version": null,
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-01-14T14:12:25.000+0100",
	"update-timestamp": "2015-01-14T14:12:35.000+0100",
	"artifact-template-id": null,
	"@uri": "/nfvd/instance/artifact/11j99903-c2fc-3512-1629-b5e7022lk892",
	"@id": "11j99903-c2fc-3512-1629-b5e7022lk892"
	}	

Possible errors	HTTP 500: In case processing error in server side..	
	HTTP 404: Artifact instance id not found	

	HTTP 409: Conflict. Attribute already exists.

4.15.14 Update Artifact Instance

4.15.14.1 XML

Description	Update an artifact instance.
HTTP method	PUT
Resource	/instance/artifact
Request Parameters	Not needed.
Relevant Headers	Accept: application/xml Content-type: application/xml
Request Body	<artifact-instances xmlns="http://www.hp.com/nfvd"> <artifact-instance > <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> <category> <attributes> <attribute> <label>Result_code</label> <mandatory>false</mandatory> <order>2</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Result_description</label> <mandatory>false</mandatory> <order>3</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Operation</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> </attributes> <label>LAST_OPERATION</label> <order>4</order> </category> <category> <attributes> <attribute> <label>AssignmentPolicyID</label> <mandatory>false</mandatory> <order>5</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute>

```
            <label>Name</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Description</label>
            <mandatory>false</mandatory>
            <order>4</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Type</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Vendor</label>
            <mandatory>false</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>GENERAL</label>
        <order>1</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>additionalText</label>
            <mandatory>false</mandatory>
            <order>6</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Source</label>
            <mandatory>true</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>LifeCycle_State</label>
            <mandatory>false</mandatory>
            <order>4</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Operational_Status</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>LifeCycle_State_Date</label>
```

	<mandatory>false</mandatory> <order>5</order> <type>Date</type> <unit>Date</unit> </attribute> <attribute> <label>Operational_Status_Date</label> <mandatory>false</mandatory> <order>2</order> <type>Date</type> <unit>Date</unit> </attribute> </attributes> <label>STATUS</label> <order>2</order> </category> <category> <attributes> <attribute> <label>ResourceTreeID</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>RelationshipTreeID</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> </attributes> <label>ORIGIN_CREATION</label> <order>3</order> </category> </categories> <creation-timestamp>2015-04-10T10:06:57.835+0200</creation-timestamp> <id>83968569-b00d-4335-8bc3-6ea443cbb45e</id> <identifier>VNF:UPDATED</identifier> <physical>false</physical> <update-timestamp>2015-04-10T10:06:58.175+0200</update-timestamp> </artifact-instance> </artifact-instances>
RAW request example	PUT http://localhost:8080/nfvd/instance/artifact HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Content-Length: 5550 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <?xml version="1.0" encoding="UTF-8" standalone="yes”> SEE REQUEST-BODY
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 3146 Date: Mon, 11 May 2015 12:46:29 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes”> <artifact-instances xmlns="http://www.hp.com/nfvd">

	<artifact-instance id="83968569-b00d-4335-8bc3-6ea443cbb45e" uri="/nfvd/instance/artifact/83968569-b00d-4335-8bc3-6ea443cbb45e"> <artifact-definition> <category>GENERIC</category> <family>VNF</family> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> [...] </categories> <creation-timestamp>2015-04-10T10:06:57.835+0200</creation-timestamp> <id>83968569-b00d-4335-8bc3-6ea443cbb45e</id> <identifier>VNF:UPDATED</identifier> <physical>false</physical> <update-timestamp>2015-05-11T14:46:28.670+0200</update-timestamp> </artifact-instance> </artifact-instances>
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 404: Artifact instance id not found

4.15.14.2 JSON

Description	Update an artifact instance.
HTTP method	PUT
Resource	/instance/artifact
Request Parameters	Not needed.
Relevant Headers	Accept: application/json Content-type: application/json
Request Body	{"artifact-instances": [{ "id": "83968569-b00d-4335-8bc3-6ea443cbb45e", "identifier": "VNF:updated", "physical": false, "categories": [{ "order": 4, "attributes": [{ "order": 2, "mandatory": false, "value": null, "description": null, "type": "TEXT", "unit": "TEXT", "label": "Result_code" }, { "order": 3, "mandatory": false,

```
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Result_description"
          },
                {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operation"
          }
        ],
        "label": "LAST_OPERATION"
      },
          {
        "order": 1,
        "attributes":          [
                {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "AssignmentPolicyID"
          },
                {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Name"
          },
                {
            "order": 4,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Description"
          },
                {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Type"
          },
                {
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
```

```
            "unit": "TEXT",
            "label": "Vendor"
          }
        ],
        "label": "GENERAL"
      },
          {
        "order": 2,
        "attributes":          [
                  {
            "order": 6,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "additionalText"
          },
                  {
            "order": 3,
            "mandatory": true,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Source"
          },
                  {
            "order": 4,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "LifeCycle_State"
          },
                  {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operational_Status"
          },
                  {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "LifeCycle_State_Date"
          },
                  {
            "order": 2,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "Operational_Status_Date"
          }
```

```
          ],
          "label": "STATUS"
        },
            {
          "order": 3,
          "attributes":          [
                    {
              "order": 1,
              "mandatory": false,
              "value": null,
              "description": null,
              "type": "TEXT",
              "unit": "TEXT",
              "label": "ResourceTreeID"
            },
                    {
              "order": 1,
              "mandatory": false,
              "value": null,
              "description": null,
              "type": "TEXT",
              "unit": "TEXT",
              "label": "RelationshipTreeID"
            }
          ],
          "label": "ORIGIN_CREATION"
        }
      ],
      "artifact-definition":      {
        "family": "VNF",
        "category": "GENERIC",
        "group": null,
        "type": null,
        "subtype": null,
        "version": null
      },
      "artifact-version": null,
      "status":      {
        "enabled": true,
        "label": "ENABLED",
        "visible-label": "ENABLED"
      },
      "creation-timestamp": "2015-04-10T10:06:57.835+0200",
      "update-timestamp": "2015-04-10T10:06:58.175+0200",
      "artifact-template-id": null
    }
  ]}
```


RAW request example

```
PUT http://localhost:8080/nfvd/instance/artifact HTTP/1.1
Accept-Encoding: gzip,deflate
Content-type: application/json
Accept: application/json
Content-Length: 6224
Host: localhost:8080
Connection: Keep-Alive
User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

SEE REQUEST-BODY
```

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 13:06:59 GMT
	
	{"artifact-instances": [{
	"id": "83968569-b00d-4335-8bc3-6ea443cbb45e",
	"identifier": "VNF:updated",
	"physical": false,
	"categories": [
	[...]
	],
	"artifact-definition": {
	"family": "VNF",
	"category": "GENERIC",
	"group": null,
	"type": null,
	"subtype": null,
	"version": null
	},
	"artifact-version": null,
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-04-10T10:06:57.835+0200",
	"update-timestamp": "2015-05-11T15:06:59.128+0200",
	"artifact-template-id": null,
	"@uri": "/nfvd/instance/artifact/83968569-b00d-4335-8bc3-6ea443cbb45e",
	"@id": "83968569-b00d-4335-8bc3-6ea443cbb45e"
	}]}

Possible errors	HTTP 500: In case processing error in server side..
	HTTP 404: Artifact instance id not found
	HTTP 400 Request body syntactically incorrect

4.15.15 Update attribute value

4.15.15.1 XML

Description	Updates a existing Attribute.	
HTTP method	PUT	
Resource	/instance/artifact/{id}/{cat}/{attr}	
Query parameters	value	mandatory
Relevant Headers		
	Accept: application/xml	
Request Body	Not needed	
RAW request example	PUT http://localhost:8080/nfvd/instance/artifact/18a0d62f-6bb8-4f54-8ba2-fc3aad17beec/GENERAL/Type?value=TEXT HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 2112 Date: Mon, 11 May 2015 13:34:32 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?><artifact-instance xmlns="http://www.hp.com/nfvd"> <artifact-definition> <category>BIDIRECTIONAL</category> <family>VNF_ENDPOINT</family> <group>OPENSTACK</group> </artifact-definition> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <categories> <category> <attributes> <attribute> <label>Type</label> <mandatory>false</mandatory> <order>2</order> <type>TEXT</type> <unit>TEXT</unit> <value>TEXT</value> </attribute> <attribute> <label>Description</label> <mandatory>false</mandatory> <order>3</order> <type>TEXT</type> <unit>TEXT</unit> </attribute> <attribute> <label>Name</label>	

```
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>GENERAL</label>
        <order>1</order>
      </category>
      <category>
        <attributes>
          <attribute>
            <label>additionalText</label>
            <mandatory>false</mandatory>
            <order>6</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Operational_Status</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>LifeCycle_State_Date</label>
            <mandatory>false</mandatory>
            <order>5</order>
            <type>Date</type>
            <unit>Date</unit>
          </attribute>
          <attribute>
            <label>LifeCycle_State</label>
            <mandatory>false</mandatory>
            <order>4</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
          <attribute>
            <label>Operational_Status_Date</label>
            <mandatory>false</mandatory>
            <order>2</order>
            <type>Date</type>
            <unit>Date</unit>
          </attribute>
          <attribute>
            <label>Source</label>
            <mandatory>true</mandatory>
            <order>3</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
          </attribute>
        </attributes>
        <label>STATUS</label>
        <order>2</order>
      </category>
    </categories>
    <creation-timestamp>2015-04-10T10:07:07.077+0200</creation-timestamp>
    <id>18a0d62f-6bb8-4f54-8ba2-fc3aad17beec</id>
    <identifier>VNF_ENDPOINT:18a0d62f-6bb8-4f54-8ba2-fc3aad17beec</identifier>
    <physical>false</physical>
    <update-timestamp>2015-04-10T10:07:07.297+0200</update-timestamp>
```

	</artifact-instance>
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 404: Artifact instance id not found

4.15.15.2 JSON

Description	Updates a existing atribute.	
HTTP method	PUT	
Resource	/instance/artifact/{id}/{cat}/{attr}	
	value	mandatory
Relevant Headers		
	Accept: application/json	
Request Body	Not needed	
RAW request example	PUT http://localhost:8080/nfvd/instance/artifact/18a0d62f-6bb8-4f54-8ba2-fc3aad17beec/GENERAL/Type?value=TEXT HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/json Transfer-Encoding: chunked Date: Mon, 11 May 2015 13:29:44 GMT { "id": "18a0d62f-6bb8-4f54-8ba2-fc3aad17beec", "identifier": "VNF_ENDPOINT:18a0d62f-6bb8-4f54-8ba2-fc3aad17beec", "physical": false, "categories": [{ "order": 1, "attributes": [{ "order": 2, "mandatory": false, "value": "TEXT", "description": null, "type": "TEXT", "unit": "TEXT", "label": "Type" }, {	

```
            "order": 3,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Description"
        },
                {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Name"
        }
    ],
    "label": "GENERAL"
  },
        {
    "order": 2,
    "attributes":         [
                {
            "order": 6,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "additionalText"
        },
                {
            "order": 1,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Operational_Status"
        },
                {
            "order": 5,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "LifeCycle_State_Date"
        },
                {
            "order": 4,
            "mandatory": false,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "LifeCycle_State"
        },
                {
            "order": 2,
            "mandatory": false,
            "value": null,
```

```
            "description": null,
            "type": "Date",
            "unit": "Date",
            "label": "Operational_Status_Date"
          },
                {
            "order": 3,
            "mandatory": true,
            "value": null,
            "description": null,
            "type": "TEXT",
            "unit": "TEXT",
            "label": "Source"
          }
        ],
        "label": "STATUS"
      }
    ],
    "artifact-definition":    {
      "family": "VNF_ENDPOINT",
      "category": "BIDIRECTIONAL",
      "group": "OPENSTACK",
      "type": null,
      "subtype": null,
      "version": null
    },
    "artifact-version": null,
    "status":    {
      "enabled": true,
      "label": "ENABLED",
      "visible-label": "ENABLED"
    },
    "creation-timestamp": "2015-04-10T10:07:07.077+0200",
    "update-timestamp": "2015-04-10T10:07:07.297+0200",
    "artifact-template-id": null
  }
```


Possible errors	HTTP 500: In case processing error in server side..
	HTTP 404: Artifact instance id not found

4.15.16 Delete artifact instance by id

4.15.16.1 XML - JSON

Description	Delete an artifact instance by id.	
HTTP method	DELETE	
Resource	/instance/artifact/{id}	
Query Parameters	id	mandatory
Relevant Headers	Not needed	
Request Body	Not needed	
RAW request example	DELETE http://localhost:8080/nfvd/instance/artifact/f166a23b-a3dd-4b1b-8b33-7cfd4ab6dcc7 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Mon, 11 May 2015 13:41:26 GMT	
Possible errors	HTTP 500: In case processing error in server side	
	HTTP 404: Instance Id not found.	

4.15.17 Delete attribute

4.15.17.1 XML – JSON

Description	Delete an attribute.	
HTTP method	DELETE	
Resource	/instance/artifact/{id/{cat}/{attr}	
Query Parameters	Id	mandatory
Relevant Headers	Not needed	
Request Body	Not needed	
RAW request example	DELETE http://localhost:8080/nfvd/instance/artifact/18a0d62f-6bb8-4f54-8ba2-fc3aad17beec/GENERAL/Type HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Mon, 11 May 2015 13:46:28 GMT	
Possible errors	HTTP 500: In case processing error in server side	
	HTTP 404: Attribute not found.	

4.16 Relationships

4.16.1 Get relationship instance by parameters

4.16.1.1 XML

Description	Get an relationship instance that marches the given parameters	
HTTP method	GET	
Resource	/instance/relationship	
Query Parameters	parentArtifactInstanceId	mandatory
	childArtifactInstanceId	mandatory
	relationshipType	optional
Relevant Headers	Accept: application/xml	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/instance/relationship?parentArtifactInstanceId=11j99903-c2fc-8053-3277-b5e7022lk89h&childArtifactInstanceId=11j99903-c2fc-8053-3277-b5e7022lk890&relationshipType=INCLUDE HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 674 Date: Mon, 11 May 2015 14:36:58 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <relationship-instances xmlns="http://www.hp.com/nfvd"> <relationship-instance id="100" uri="/nfvd/instance/relationship/100"> <categories/> <child-artifact-id>11j99903-c2fc-8053-3277-b5e7022lk890</child-artifact-id> <creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp> <parent-artifact-id>11j99903-c2fc-8053-3277-b5e7022lk89h</parent-artifact-id> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <relationship-type>INCLUDE</relationship-type> <update-timestamp>2015-04-01T14:29:35.665+0200</update-timestamp> </relationship-instance> </relationship-instances>	
Possible errors	HTTP 500: In case processing error in server side..	
	HTTP 400: Bad parameters	
	HTTP 404: Mandatory Ids not found.	

4.16.1.2 JSON

Description	Get an relationship instance that marches the given parameters	
HTTP method	GET	
Resource	/instance/relationship	
Query Parameters	parentArtifactInstanceId	mandatory
	childArtifactInstanceId	mandatory
	relationshipType	optional
Relevant Headers	Accept: application/json	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/instance/relationship?parentArtifactInstanceId=11j99903-c2fc-8053-3277-b5e7022lk89h&childArtifactInstanceId=11j99903-c2fc-8053-3277-b5e7022lk890&relationshipType=INCLUDE HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 14:39:06 GMT
	
	{"relationship-instances": [{
	"categories": [],
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-04-01T14:29:32.318+0200",
	"update-timestamp": "2015-04-01T14:29:35.665+0200",
	"relationship-type": "INCLUDE",
	"parent-artifact-id": "11j99903-c2fc-8053-3277-b5e7022lk89h",
	"child-artifact-id": "11j99903-c2fc-8053-3277-b5e7022lk890",
	"@uri": "/nfvd/instance/relationship/100",
	"@id": "100"
	}]}	

Possible errors	HTTP 500: In case processing error in server side..	
	HTTP 400: Bad parameters	
	HTTP 404: Mandatory Ids not found.	

4.16.2 Get relationship instance by ID

4.16.2.1 XML

Description	Get relationship instance searching by id.
HTTP method	GET
Resource	/instance/relationship/{id}
Query Parameters	Not needed
Relevant Headers	Accept: application/xml
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/instance/relationship/100 HTTP/1.1 Accept-Encoding: gzip,deflate Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 625 Date: Mon, 11 May 2015 14:1:42 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <relationship-instance id="100" uri="/nfvd/instance/relationship/100" xmlns="http://www.hp.com/nfvd"> <categories/> <child-artifact-id>11j99903-c2fc-8053-3277-b5e7022lk890</child-artifact-id> <creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp> <parent-artifact-id>11j99903-c2fc-8053-3277-b5e7022lk89h</parent-artifact-id> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <relationship-type>INCLUDE</relationship-type> <update-timestamp>2015-04-01T14:29:35.665+0200</update-timestamp> </relationship-instance>
Possible errors	HTTP 500: In case processing error in server side.. HTTP 400: Bad parameters HTTP 404: Mandatory Ids not found.

4.16.2.2 JSON

Description	Get relationship instance searching by id.
HTTP method	GET

Resource	/instance/relationship/{id}	
Query Parameters	id	mandatory
Relevant Headers		
	Accept: application/json	
Request Body	Not needed	
RAW request example	GET http://localhost:8080/nfvd/instance/relationship/100 HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 14:53:38 GMT
	
	{
	"categories": [],
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-04-01T14:29:32.318+0200",
	"update-timestamp": "2015-04-01T14:29:35.665+0200",
	"relationship-type": "INCLUDE",
	"parent-artifact-id": "11j99903-c2fc-8053-3277-b5e7022lk89h",
	"child-artifact-id": "11j99903-c2fc-8053-3277-b5e7022lk890",
	"@uri": "/nfvd/instance/relationship/100",
	"@id": "100"
	}	

Possible errors	HTTP 500: In case processing error in server side..	
	HTTP 400: Bad parameters	
	HTTP 404: Mandatory Ids not found.	

4.16.3 Get tree ids

4.16.3.1 XML

Description	Get tree ids in which the relationship instance id belongs to
HTTP method	GET
Resource	/instance/relationship/{id}/tree
Query Parameters	Not needed
Relevant Headers	Accept: application/xml
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/instance/relationship/100/tree HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 150 Date: Mon, 11 May 2015 14:56:33 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <uuids xmlns="http://www.hp.com/nfvd"> <uuid>o990c511-72ab-8053-3277-fe1b182fd130</uuid> </uuids>
Possible errors	HTTP 500: In case processing error in server side.. HTTP 400: Bad parameters HTTP 404: Mandatory Ids not found.

4.16.3.2 JSON

Description	Get tree ids in which the relationship instance id belongs to
HTTP method	GET
Resource	/instance/relationship/{id}/tree
Query Parameters	Not needed
Relevant Headers	Accept: application/json
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/instance/relationship/100/tree HTTP/1.1 Accept-Encoding: gzip,deflate Host: localhost:8080

	Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 150 Date: Mon, 11 May 2015 14:58:15 GMT {"uuids": ["o990c511-72ab-8053-3277-fe1b182fd130"]}
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404: Mandatory dds not found.

4.16.4 Get an relationship instance attribute

4.16.4.1 XML

Description	Return a relationship instance attribute.
HTTP method	GET
Resource	/instance/relationship/{id}/{cat}/{attr}
Query Parameters	Not needed
Relevant Headers	Accept: application/xml
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/instance/relationship/885/GENERAL/Type HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/xml Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 229 Date: Mon, 11 May 2015 15:02:44 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <attribute xmlns="http://www.hp.com/nfvd"> <label>Type</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> <value>test0705</value> </attribute>
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404: Mandatory Ids not found.

4.16.4.2 JSON

Description	Return a relationship instance attribute.
HTTP method	GET
Resource	/instance/relationship/{id}/{cat}/{attr}

Query Parameters	Not needed
Relevant Headers	Accept: application/json
Request Body	Not needed
RAW request example	GET http://localhost:8080/nfvd/instance/relationship/885/GENERAL/Type HTTP/1.1 Accept-Encoding: gzip,deflate Accept: application/json Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 15:05:49 GMT
	
	<?xml version="1.0" encoding="UTF-8" standalone="yes"?> {
	"order": 1,
	"mandatory": false,
	"value": "test0705",
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Type"
	}

Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters
	HTTP 404: Mandatory Ids not found.

4.16.5 Create a relationship instance

4.16.5.1 XML

Description	Create a new relationship instance..
HTTP method	POST
Resource	/instance/relationship/
Query Parameters	Not needed
Relevant Headers	Accept: application/xml
Request Body	<?xml version="1.0" encoding="UTF-8" standalone="yes"?> <relationship-instances xmlns="http://www.hp.com/nfvd"> <relationship-instance> <categories> <category> <attributes> <attribute> <label>Type</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> <value>test0705</value> </attribute> </attributes> <label>GENERAL</label> <order>1</order> </category> </categories> <child-artifact-id>11j99903-c2fc-8968-5473-b5e7022lk024</child-artifact-id> <creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp> <parent-artifact-id>83968569-b00d-4335-8bc3-6ea443cbb45e</parent-artifact-id> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <relationship-type>INCLUDE</relationship-type> <update-timestamp>2015-04-01T14:29:35.665+0200 </update-timestamp> </relationship-instance> </relationship-instances>
RAW request example	POST http://localhost:8080/nfvd/instance/relationship HTTP/1.1 Accept-Encoding: gzip,deflate Content-type: application/xml Accept: application/xml Content-Length: 977 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <relationship-instances xmlns="http://www.hp.com/nfvd">

```
<relationship-instance>
        <categories>
                <category>
                        <attributes>
                                <attribute>
                                        <label>Type</label>
                                        <mandatory>false</mandatory>
                                        <order>1</order>
                                        <type>TEXT</type>
                                        <unit>TEXT</unit>
                                        <value>test0705</value>
                                </attribute>
                        </attributes>
                <label>GENERAL</label>
                <order>1</order>
                </category>
        </categories>
                <child-artifact-id>11j99903-c2fc-8968-5473-b5e7022lk024</child-artifact-id>
                <creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp>
                <parent-artifact-id>83968569-b00d-4335-8bc3-6ea443cbb45e</parent-artifact-id>
                <status>
                        <enabled>true</enabled>
                        <label>ENABLED</label>
                        <visible-label>ENABLED</visible-label>
                </status>
                <relationship-type>INCLUDE</relationship-type>
                <update-timestamp>2015-04-01T14:29:35.665+0200
        </update-timestamp>
</relationship-instance>

</relationship-instances>
```


RAW Success response example


```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Content-Type: application/xml
Content-Length: 913
Date: Mon, 11 May 2015 15:34:15 GMT

<?xml version="1.0" encoding="UTF-8" standalone="yes"?> <relationship-instances
xmlns="http://www.hp.com/nfvd">
  <relationship-instance id="923" uri="/nfvd/instance/relationship/923">
    <categories>
      <category>
        <attributes>
          <attribute>
            <label>Type</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
            <value>test0705</value>
          </attribute>
        </attributes>
        <label>GENERAL</label>
        <order>1</order>
      </category>
    </categories>
    <child-artifact-id>11j99903-c2fc-8968-5473-b5e7022lk024</child-artifact-id>
    <creation-timestamp>2015-05-11T17:34:14.954+0200</creation-timestamp>
    <parent-artifact-id>83968569-b00d-4335-8bc3-6ea443cbb45e</parent-artifact-id>
    <status>
      <enabled>true</enabled>
      <label>ENABLED</label>
      <visible-label>ENABLED</visible-label>
```

	</status> <relationship-type>INCLUDE</relationship-type> <update-timestamp>2015-05-11T17:34:14.954+0200</update-timestamp> </relationship-instance> </relationship-instances>
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters

4.16.5.2 JSON

Description	Create a new relationship instance..
HTTP method	POST
Resource	/instance/relationship/
Query Parameters	Not needed
Relevant Headers	Accept: application/json

Request Body	{"relationship-instances" : [{
	"categories": [{
	"order": 1,
	"attributes": [{
	"order": 1,
	"mandatory": false,
	"value": "test0705",
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Type"
	}],
	"label": "GENERAL"
	}],
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-05-11T17:34:14.954+0200",
	"update-timestamp": "2015-05-11T17:34:14.954+0200",
	"relationship-type": "INCLUDE",
	"parent-artifact-id": "11j99903-c2fc-6775-9183-b5e7022lk89h",
	"child-artifact-id": "11j99903-c2fc-8968-5473-b5e7022lk024"
	}]}

RAW request example	{"relationship-instances" : [{
	"categories": [{
	"order": 1,
	"attributes": [{
	"order": 1,
	"mandatory": false,
	"value": "test0705",
	"description": null,

	"type": "TEXT", "unit": "TEXT", "label": "Type" }], "label": "GENERAL" }], "status": { "enabled": true, "label": "ENABLED", "visible-label": "ENABLED" }, "creation-timestamp": "2015-05-11T17:34:14.954+0200", "update-timestamp": "2015-05-11T17:34:14.954+0200", "relationship-type": "INCLUDE", "parent-artifact-id": "11j99903-c2fc-6775-9183-b5e7022lk89h", "child-artifact-id": "11j99903-c2fc-8968-5473-b5e7022lk024" }]}

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 15:37:14 GMT
	
	{"relationship-instances": [{
	"categories": [{
	"order": 1,
	"attributes": [{
	"order": 1,
	"mandatory": false,
	"value": "test0705",
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Type"
	}],
	"label": "GENERAL"
	}],
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-05-11T17:37:14.659+0200",
	"update-timestamp": "2015-05-11T17:37:14.659+0200",
	"relationship-type": "INCLUDE",
	"parent-artifact-id": "11j99903-c2fc-6775-9183-b5e7022lk89h",
	"child-artifact-id": "11j99903-c2fc-8968-5473-b5e7022lk024",
	"@uri": "/nfvd/instance/relationship/924",
	"@id": "924"
	}]}

Possible errors	HTTP 500: In case processing error in server side..
	HTTP 400: Bad parameters

4.16.6 Create new attribute

4.16.6.1 XML

Description	Creates a new Attribute.	
HTTP method	POST	
Resource	/instance/relationship/{id}/{cat}/{attr}	
Query Parameters	value	mandatory
Relevant Headers		
	Accept: application/xml	
Request Body	Not needed	
RAW request example	POST http://localhost:8080/nfvd/instance/relationship/885/GENERAL/Type?value=test HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 860 Date: Mon, 11 May 2015 15:57:04 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes”> <relationship-instance xmlns="http://www.hp.com/nfvd"> <categories> <category> <attributes> <attribute> <label>Type</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> <value>test</value> </attribute> </attributes> <label>GENERAL</label> <order>1</order> </category> </categories> <child-artifact-id>11j99903-c2fc-8968-5473-b5e7022lk024</child-artifact-id> <creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp> <parent-artifact-id>11j99903-c2fc-9973-1890-b5e7022lk89h</parent-artifact-id> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <relationship-type>INCLUDE</relationship-type> <update-timestamp>2015-04-01T14:29:35.665+0200</update-timestamp> </relationship-instance>	

Possible errors	HTTP 500: In case processing error in server side..
	HTTP 404: Relationship instance id not found
	HTTP 409: Conflict. attribute already exists.

4.16.6.2 JSON

Description	Creates a new Attribute.	
HTTP method	POST	
Resource	/instance/relationship/{id}/{cat}/{attr}	
Query Parameters	value	mandatory
Relevant Headers	Accept: application/json	
Request Body	Not needed	
RAW request example	POST http://localhost:8080/nfvd/instance/relationship/885/GENERAL/Type?value=test HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 15:59:36 GMT
	
	{
	"categories": [{
	"order": 1,
	"attributes": [{
	"order": 1,
	"mandatory": false,
	"value": "test",
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Type"
	}],
	"label": "GENERAL"
	}],
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-04-01T14:29:32.318+0200",
	"update-timestamp": "2015-04-01T14:29:35.665+0200",
	"relationship-type": "INCLUDE",
	"parent-artifact-id": "11j99903-c2fc-9973-1890-b5e7022lk89h",
	"child-artifact-id": "11j99903-c2fc-8968-5473-b5e7022lk024"	

	}
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 404: Relationship instance id not found
	HTTP 409: Conflict. attribute already exists.

4.16.7 Update Instance Relationship

4.16.7.1 XML

Description	Updates an instance relationship.
HTTP method	PUT
Resource	/instance/relationship
Query Parameters	Not needed.
Relevant Headers	Accept: application/xml Content-type: application/xml
Request Body	<relationship-instances xmlns="http://www.hp.com/nfvd"> <relationship- > <categories> <category> <attributes> <attribute> <label>Type</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> <value>test0705</value> </attribute> </attributes> <label>GENERAL</label> <order>1</order> </category> </categories> <child-artifact-id>11j99903-c2fc-8968-5473-b5e7022lk024</child-artifact-id> <creation-timestamp>2015-05-11T17:34:14.954+0200</creation-timestamp> <parent-artifact-id>83968569-b00d-4335-8bc3-6ea443cbb45e</parent-artifact-id> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <relationship-type>INCLUDE</relationship-type> <update-timestamp>2015-05-11T17:34:14.954+0200</update-timestamp> </relationship-instance> </relationship-instances>
RAW request example	PUT http://localhost:8080/nfvd/instance/relationship HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/xml Accept: application/xml Content-Length: 1178 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5) <?xml version="1.0" encoding="UTF-8" standalone="yes”> <relationship-instances xmlns="http://www.hp.com/nfvd"> <relationship-instance> <categories> <category> <attributes> <attribute> <label>Type</label> <mandatory>false</mandatory>

```
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
            <value>test0705</value>
          </attribute>
        </attributes>
        <label>GENERAL</label>
        <order>1</order>
      </category>
    </categories>
    <child-artifact-id>11j99903-c2fc-8968-5473-b5e7022lk024</child-artifact-id>
    <creation-timestamp>2015-05-11T17:34:14.954+0200</creation-timestamp>
    <parent-artifact-id>83968569-b00d-4335-8bc3-6ea443cbb45e</parent-artifact-id>
    <status>
      <enabled>true</enabled>
      <label>ENABLED</label>
      <visible-label>ENABLED</visible-label>
    </status>
    <relationship-type>INCLUDE</relationship-type>
    <update-timestamp>2015-05-11T17:34:14.954+0200</update-timestamp>
  </relationship-instance>
</relationship-instances>
```


RAW Success response example


```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Content-Type: application/xml
Content-Length: 913
Date: Mon, 11 May 2015 16:09:57 GMT

<?xml version="1.0" encoding="UTF-8" standalone="yes”> <relationship-instances
xmlns="http://www.hp.com/nfvd">
  <relationship-instance id="923" uri="/nfvd/instance/relationship/923">
    <categories>
      <category>
        <attributes>
          <attribute>
            <label>Type</label>
            <mandatory>false</mandatory>
            <order>1</order>
            <type>TEXT</type>
            <unit>TEXT</unit>
            <value>test0705</value>
          </attribute>
        </attributes>
        <label>GENERAL</label>
        <order>1</order>
      </category>
    </categories>
    <child-artifact-id>11j99903-c2fc-8968-5473-b5e7022lk024</child-artifact-id>
    <creation-timestamp>2015-05-11T17:34:14.954+0200</creation-timestamp>
    <parent-artifact-id>83968569-b00d-4335-8bc3-6ea443cbb45e</parent-artifact-id>
    <status>
      <enabled>true</enabled>
      <label>ENABLED</label>
      <visible-label>ENABLED</visible-label>
    </status>
    <relationship-type>INCLUDE</relationship-type>
    <update-timestamp>2015-05-11T18:09:57.169+0200</update-timestamp>
  </relationship-instance>
</relationship-instances>
```


Possible errors

HTTP 500: In case processing error in server side..

	HTTP 404: Relationship instance id not found

4.16.7.2 JSON

Description	Updates an instance relationship.
HTTP method	PUT
Resource	/instance/relationship
Query Parameters	Not needed.
Relevant Headers	Accept: application/json Content-type: application/json

Request Body	{"relationship-instances" : [{
	"categories": [{
	"order": 1,
	"attributes": [{
	"order": 1,
	"mandatory": false,
	"value": "test0705",
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Type"
	}],
	"label": "GENERAL"
	}],
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-05-11T17:34:14.954+0200",
	"update-timestamp": "2015-05-11T17:34:14.954+0200",
	"relationship-type": "INCLUDE",
	"parent-artifact-id": "11j99903-c2fc-6775-9183-b5e7022lk89h",
	"child-artifact-id": "11j99903-c2fc-8968-5473-b5e7022lk024"
	}]}

RAW request example	PUT http://localhost:8080/nfvd/instance/relationship HTTP/1.1
	Accept-Encoding: gzip,deflate
	Content-Type: application/json
	Accept: application/json
	Content-Length: 713
	Host: localhost:8080
	Connection: Keep-Alive
	User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
	
	{"relationship-instances": [{
	"categories": [{
	"order": 1,
	"attributes": [{
	"order": 1,
	"mandatory": false,
	"value": "test0705",
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Type"
	}],

```
    "label": "GENERAL"
  }],
  "status":    {
    "enabled": true,
    "label": "ENABLED",
    "visible-label": "ENABLED"
  },
  "creation-timestamp": "2015-05-11T17:34:14.954+0200",
  "update-timestamp": "2015-05-11T18:12:42.595+0200",
  "relationship-type": "INCLUDE",
  "parent-artifact-id": "11j99903-c2fc-6775-9183-b5e7022lk89h",
  "child-artifact-id": "11j99903-c2fc-8968-5473-b5e7022lk024"
  }]}
```


RAW Success response example


```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Content-Type: application/json
Transfer-Encoding: chunked
Date: Mon, 11 May 2015 16:12:42 GMT

{"relationship-instances": [{
  "categories": [    {
    "order": 1,
    "attributes": [      {
      "order": 1,
      "mandatory": false,
      "value": "test0705",
      "description": null,
      "type": "TEXT",
      "unit": "TEXT",
      "label": "Type"
    }],
    "label": "GENERAL"
  }],
  "status":    {
    "enabled": true,
    "label": "ENABLED",
    "visible-label": "ENABLED"
  },
  "creation-timestamp": "2015-05-11T17:34:14.954+0200",
  "update-timestamp": "2015-05-11T18:12:42.595+0200",
  "relationship-type": "INCLUDE",
  "parent-artifact-id": "11j99903-c2fc-6775-9183-b5e7022lk89h",
  "child-artifact-id": "11j99903-c2fc-8968-5473-b5e7022lk024",
  "@uri": "/nfvd/instance/relationship/924",
  "@id": "924"
}]}
```


Possible errors

- HTTP 500: In case processing error in server side.
- HTTP 404: Relationship instance id not found

4.16.8 Update attribute

4.16.8.1 XML

Description	Updates an existing Attribute.	
HTTP method	PUT	
Resource	/instance/relationship/{id}/{cat}/{attr}	
Query Parameters	value	mandatory
Relevant Headers		
	Accept: application/xml	
Request Body	Not needed	
RAW request example	PUT http://localhost:8080/nfvd/instance/relationship/885/GENERAL/Type?value=TestUpdated HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/xml Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 200 OK Server: Apache-Coyote/1.1 Content-Type: application/xml Content-Length: 867 Date: Mon, 11 May 2015 16:17:44 GMT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <relationship-instance id="885" uri="/nfvd/instance/relationship/885" xmlns="http://www.hp.com/nfvd"> <categories> <category> <attributes> <attribute> <label>Type</label> <mandatory>false</mandatory> <order>1</order> <type>TEXT</type> <unit>TEXT</unit> <value>TestUpdated</value> </attribute> </attributes> <label>GENERAL</label> <order>1</order> </category> </categories> <child-artifact-id>11j99903-c2fc-8968-5473-b5e7022lk024</child-artifact-id> <creation-timestamp>2015-04-01T14:29:32.318+0200</creation-timestamp> <parent-artifact-id>11j99903-c2fc-9973-1890-b5e7022lk89h</parent-artifact-id> <status> <enabled>true</enabled> <label>ENABLED</label> <visible-label>ENABLED</visible-label> </status> <relationship-type>INCLUDE</relationship-type> <update-timestamp>2015-04-01T14:29:35.665+0200</update-timestamp> </relationship-instance>	

Possible errors	HTTP 500: In case processing error in server side..
	HTTP 404: Artifact instance relationship id not found

4.16.8.2 JSON

Description	Updates a existing Attribute.	
HTTP method	PUT	
Resource	/instance/relationship/{id}/{cat}/{attr}	
Query Parameters	value	mandatory
Relevant Headers		
	Accept: application/json	
Request Body	Not needed	
RAW request example	PUT http://localhost:8080/nfvd/instance/relationship/885/GENERAL/Type?value=TestUpdated HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Accept: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	

RAW Success response example	HTTP/1.1 200 OK
	Server: Apache-Coyote/1.1
	Content-Type: application/json
	Transfer-Encoding: chunked
	Date: Mon, 11 May 2015 16:19:59 GMT
	
	{
	"categories": [{
	"order": 1,
	"attributes": [{
	"order": 1,
	"mandatory": false,
	"value": "TestUpdated",
	"description": null,
	"type": "TEXT",
	"unit": "TEXT",
	"label": "Type"
	}],
	"label": "GENERAL"
	}],
	"status": {
	"enabled": true,
	"label": "ENABLED",
	"visible-label": "ENABLED"
	},
	"creation-timestamp": "2015-04-01T14:29:32.318+0200",
	"update-timestamp": "2015-04-01T14:29:35.665+0200",
	"relationship-type": "INCLUDE",
	"parent-artifact-id": "11j99903-c2fc-9973-1890-b5e7022lk89h",
	"child-artifact-id": "11j99903-c2fc-8968-5473-b5e7022lk024",
	"@uri": "/nfvd/instance/relationship/885",	

	"@id": "885" }
Possible errors	HTTP 500: In case processing error in server side..
	HTTP 404: Relationship instance id not found

4.16.9 Delete instance relationship by id

4.16.9.1 XML – JSON

Description	Deletes a relationship by id
HTTP method	DELETE
Resource	/instance/relationship/{id}
Request Parameters	Not needed
Relevant Headers	Not needed
Request Body	Not needed
RAW request example	DELETE http://localhost:8080/nfvd/instance/relationship/924 HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Tue, 12 May 2015 06:59:09 GMT
Possible errors	HTTP 500: In case processing error in server side
	HTTP 404: Attribute not found.

4.16.10 Delete by parameters

4.16.10.1 XML – JSON

Description	Deletes an attribute.	
HTTP method	DELETE	
Resource	/instance/relationship	
Query Parameters	parentArtifactInstanceId	mandatory
	childArtifactInstanceId	mandatory
	relationshipType	mandatory
Relevant Headers	Not needed	
Request Body	Not needed	
RAW request example	DELETE http://localhost:8080/nfvd/instance/relationship?parentArtifactInstanceId=83968569-b00d-4335-8bc3-6ea443cbb45e&childArtifactInstanceId=11j99903-c2fc-8968-5473-b5e7022lk024&relationshipType=INCLUDE HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)	
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Tue, 12 May 2015 06:29:03 GMT	
Possible errors	HTTP 500: In case processing error in server side	
	HTTP 404: Attribute not found.	

4.16.11 Delete Attribute

4.16.11.1 XML – JSON

Description	Deletes an attribute.
HTTP method	DELETE
Resource	/instance/relationship/{id/{cat}/{attr}
Query Parameters	Not needed
Relevant Headers	Not needed
Request Body	Not needed
RAW request example	DELETE http://localhost:8080/nfvd/instance/relationship/885/GENERAL/Type HTTP/1.1 Accept-Encoding: gzip,deflate Content-Type: application/json Content-Length: 0 Host: localhost:8080 Connection: Keep-Alive User-Agent: Apache-HttpClient/4.1.1 (java 1.5)
RAW Success response example	HTTP/1.1 204 Sin Contenido Server: Apache-Coyote/1.1 Date: Tue, 12 May 2015 06:29:03 GMT
Possible errors	HTTP 500: In case processing error in server side
	HTTP 404: Attribute not found.

Chapter 5

Assurance APIs

In this chapter you will find all operations related to Assurance.

5.1 KPI

Fetches the monitor KPI (Key Performance Indicators) details, such as CPU usage, memory usage etc, depending on the type of monitor.

1. Input: List of Artifact IDs
2. URL: http://<Assurance host>:<Assurance pot>/nfvd/instance/artifact/kpi?id=<ArtifactId1>&&id=<ArtifactId2>
3. Output: XML Response


```
artifact-instances
  xmlns: http://www.hp.com/nfvd
  artifact-instance
    artifact-definition
      family: MONITOR
      category: CUSTOM
      group:
      type:
      subtype:
      version:
    artifact-version:
    categories
      category
        label: KPI
        order: 1
        attributes
          attribute (2)
            1 | label: SUMMARY | order: 0 | mandatory: false | value: 0.0
            2 | label: Type | order: 2 | mandatory: false | value: CUSTOM
    status
    id: 03620b83-8a8a-48c5-b548-5d889606ddc3
    identifier: MONITOR:03620b83-8a8a-48c5-b548-5d889606ddc3
    artifact-templat...: 71624ec3-137a-4fc3-a24c-f780ac7f7d33
    physical: false
    creation-timest...: 2015-07-02T16:18:13.575+0530
    update-timesta...: 2015-07-02T16:20:50.046+0530
```


5.2 Capacity

Fetches the capcity related information for the given Artifact ID.

1. Input: List of ArtifactID's
2. URL: http://<Assurance host>:<Assurance pot>/nfvd/instance/artifact/capacity?id=<ArtifactId1>&&id=<ArtifactId2>
3. Output: XML Response

```
artifact-instances
  artifact-instance
    artifact-definition
      family: VIRTUAL_MACHINE
      category: GENERIC
      group:
      type:
      subtype:
      version:
    artifact-version:
    categories
      category
        label: CAPACITY
        order: 1
        attributes
          attribute (9)
```

	label	order	mandatory	value
1	TOTAL_CORE	0	false	1
2	AVAILABLE_CORE	1	false	0
3	ALLOCATED_CORE	2	false	1
4	TOTAL_DISK	3	false	1
5	AVAILABLE_DISK	4	false	0
6	ALLOCATED_DISK	5	false	1
7	TOTAL_MEMORY	6	false	1024
8	AVAILABLE_MEMORY	7	false	0
9	ALLOCATED_MEMORY	8	false	1024

```
    status
      id: bb1c4793-f41e-4f3f-bddc-d2b6411634d0
      identifier: VIRTUAL_MACHINE:bb1c4793-f41e-4f3f-bddc-d2b6411634d0
      artifact-templat...: 012a7b76-c7a8-4c92-849f-83f98200a2fe
      physical: false
      creation-timest...: 2015-07-02T16:18:10.896+0530
      update-timesta...: 2015-07-02T16:20:30.872+0530
```


5.3 Operation Status

Fetches the Operation Status of the given Artifact ID

1. Input: List of Artifact IDs
   URL: http://<Assurance host>:<Assurance pot>/nfvd/instance/artifact/status?id=<ArtifactId1>&&id=<ArtifactId2>

2. Output: Response XML


```
artifact-instances
  xmlns: http://www.hp.com/nfvd
  artifact-instance
    artifact-definition
    artifact-version:
    categories
      category
        label: STATUS
        order: 1
        attributes
          attribute (7)
```

	label	order	mandatory	value
1	Operational_Status	1	false	normal_operation
2	Operational_Status_Date	2	false	2015-07-03T17:06:00 00 05:30
3	Source	3	false	Internal
4	LifeCycle_State	4	false	
5	LifeCycle_State_Date	5	false	
6	additionalText	6	false	
7	Severity	7	false	good

```
    status
      id: bb1c4793-f41e-4f3f-bddc-d2b6411634d0
      identifier: VIRTUAL_MACHINE:bb1c4793-f41e-4f3f-bddc-d2b6411634d0
      artifact-templat...: 012a7b76-c7a8-4c92-849f-83f98200a2fe
      physical: false
      creation-timest...: 2015-07-02T16:18:10.896+0530
      update-timesta...: 2015-07-02T16:20:30.872+0530
```

Chapter 6

Analytics APIs

In this chapter you will find all operations related to Analytics

6.1 Assurance Capacity Snapshot

NFVD Analytics sometime requires to take assurance capacity snapshot, this will get all the capacity related artifact and relationship and put as a .csv file format in to Capacity data folder.
Ex : /var/opt/HP/nfvd/DataDirectory/Topology

1. REST URL : http://<Host>:<Assurance port>/nfvd/instance/artifact/dumpalltopology
2. Output: REST Response

Status	200 OK Loading time: 15672 ms
Request headers	**CSP**: active **User-Agent**: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/43.0.2357.130 Safari/537.36 **Content-Type**: text/plain; charset=utf-8 **Accept**: */* **Accept-Encoding**: gzip, deflate, sdch **Accept-Language**: en-US,en;q=0.8 **Cookie**: undefined=0
Response headers	**Server**: Apache-Coyote/1.1 **Content-Type**: text/plain **Date**: Tue, 07 Jul 2015 14:07:54 GMT **Transfer-Encoding**: chunked

Raw | Parsed | **Response**

Open output in new window Copy to clipboard Save as file Open in JSON tab

```
Assurance Topology snapshot initiated for analytics
```

Code highlighting thanks to Code Mirror