VNF Manager Framework

Or-VNFM API Specification

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Revision 1.0

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# API Specification

## UploadNSD

**POST** cnpl/rest/api/uploadNSD

**Upload Network Service Descriptor**

Upload network service descriptor to the VNF-Manager.

The request body must include a payload that contains the nsd descriptor file in different formats (json, xml,yaml,TOSCA,yang).

**Normal response codes** 200

**Error response codes**

Bad Request (400), Unauthorized (401), Forbidden (403), Not Found (404), Method Not Allowed (405), conflict (409), Request Entity Too Large (413), Unsupported Media Type (415), Service Unavailable (503)

**Request parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| nsdFile | plain | A NSD object. | String |
| templateType | plain | Format of the object (json,xml etc.) | xsd:dict |

**Response parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| Responses code | plain | Denotes success or failure of the action. | xsd:dict |
| Message | plain | Denotes success or failure of the action. | xsd:dict |

## UploadVNFD

**POST** cnpl/rest/api/uploadVNFD

**Upload Network Service Descriptor**

Upload virtual network function descriptor to the VNF-Manager.

The request body must include a payload that contains the vnfd descriptor file in different formats (json, xml,yaml,TOSCA, yang).

**Normal response codes** 200

**Error response codes**

Bad Request (400), Unauthorized (401), Forbidden (403), Not Found (404), Method Not Allowed (405), conflict (409), Request Entity Too Large (413), Unsupported Media Type (415), Service Unavailable (503)

**Request parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| vnfdFile | plain | A VNFD object. | String |
| templateType | plain | Format of the object (json,xml etc.) | String |

**Response parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| Responses code | plain | Denotes success or failure of the action. | xsd:dict |
| Message | plain | Denotes success or failure of the action. | xsd:dict |

## UpdateNSD

**POST** cnpl/rest/api/updateNSD

Update an existing network service descriptor to the VNF-Manager.

The request body must include a payload that contains the nsd descriptor file in different formats (json, xml,yaml,TOSCA,yang).

**Normal response codes** 200

**Error response codes**

Bad Request (400), Unauthorized (401), Forbidden (403), Not Found (404), Method Not Allowed (405), conflict (409), Request Entity Too Large (413), Unsupported Media Type (415), Service Unavailable (503)

**Request parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| nsdFile | plain | A NSD object. | String |
| templateType | plain | Format of the object (json,xml etc.) | String |

**Response parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| Responses code | plain | Denotes success or failure of the action. | xsd:dict |
| Message | plain | Denotes success or failure of the action. | xsd:dict |

## UpdateVNFD

**POST** cnpl/rest/api/updateVNFD

Update virtual network function descriptor to the VNF-Manager.

The request body must include a payload that contains the vnfd descriptor file in different formats (json, xml,yaml,TOSCA, yang).

**Normal response codes** 200

**Error response codes**

Bad Request (400), Unauthorized (401), Forbidden (403), Not Found (404), Method Not Allowed (405), conflict (409), Request Entity Too Large (413), Unsupported Media Type (415), Service Unavailable (503)

**Request parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| vnfdFile | plain | A VNFD object. | String |
| templateType | plain | Format of the object (json,xml etc.) | String |

**Response parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| Responses code | plain | Denotes success or failure of the action. | xsd:dict |
| Message | plain | Denotes success or failure of the action. | xsd:dict |

## Delete NSD

**DELETE** cnpl/rest/api/NSD

Delete an existing NSD using ID.

Request should contain the valid nsdId which is already onboarded.

**Normal response codes** 200

**Error response codes**

Bad Request (400), Unauthorized (401), Forbidden (403), Not Found (404), Method Not Allowed (405), conflict (409), Request Entity Too Large (413), Unsupported Media Type (415), Service Unavailable (503)

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| nsdID | plain | A nsd ID to be deleted | String |

**Response parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| Responses code | plain | Denotes success or failure of the action. | xsd:dict |
| Message | plain | Denotes success or failure of the action. | xsd:dict |

## Delete VNFD

**DELETE** cnpl/rest/api/NSD

Delete an existing VNFD using ID.

Request should contain the valid vnfdId which is already onboarded.

**Normal response codes** 200

**Error response codes**

Bad Request (400), Unauthorized (401), Forbidden (403), Not Found (404), Method Not Allowed (405), conflict (409), Request Entity Too Large (413), Unsupported Media Type (415), Service Unavailable (503)

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| vnfdId | plain | A vnfd ID to be deleted | String |

**Response parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| Responses code | plain | Denotes success or failure of the action. | xsd:dict |
| Message | plain | Denotes success or failure of the action. | xsd:dict |

## Upload Image

**POST** /vimpl/rest/api/cnpl/images

Upload an image on cloud.

Request should contain the user who is uploading the image, cloudtype and pop id where image has to be uploaded, imahge name and the actual image which needs to be uploaded.

**Normal response codes** 200

**Error response codes**

Bad Request (400), Unauthorized (401), Forbidden (403), Not Found (404), Method Not Allowed (405), conflict (409), Request Entity Too Large (413), Unsupported Media Type (415), Service Unavailable (503)

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| User Id | plain | Identifier of the user who is uploading the image | String |
| imageName | plain | Name of the image file to be uploaded | String |
| Image as multipart File | plain | Actual image to be uploaded | Binary |
| cloudType | plain | Type of cloud on which image has to be uploaded | String |
| PopId | plain | POP identifier on which image should be uploaded | String |

**Response parameters**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameter | Style | | Description | | Type | |
| Responses code | plain | | Denotes success or failure of the action. | | xsd:dict | |
| imageName | plain | | Name of the image file to be uploaded | | String | |
| Image Size | plain | | Size of uploaded image | | Integer | |
| PopId | | plain | | POP identifier on which image should be uploaded | | String | |
| ImageId | plain | | Image id generated by cloud | | String | |
| Image Format | plain | | Format of the image uploaded | | String | |

## Delete Image

**DELETE** /vimpl/rest/api/cnpl/images

Delete an existing image using ID.

Request should contain the valid ImageID which is already on-boarded.

**Normal response codes** 200

**Error response codes**

Bad Request (400), Unauthorized (401), Forbidden (403), Not Found (404), Method Not Allowed (405), conflict (409), Request Entity Too Large (413), Unsupported Media Type (415), Service Unavailable (503)

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| ImageId | plain | Image id generated by cloud | String |

**Response parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| Responses code | plain | Denotes success or failure of the action. | xsd:dict |
| Message | plain | Denotes success or failure of the action. | xsd:dict |

## Deploy VNFD

**POST** cnpl/rest/api/deployVNFD

Deploy an existing VNFD on cloud.

Request should contain the valid cnfdId which is already onboarded.

**Normal response codes** 200

**Error response codes**

Bad Request (400), Unauthorized (401), Forbidden (403), Not Found (404), Method Not Allowed (405), conflict (409), Request Entity Too Large (413), Unsupported Media Type (415), Service Unavailable (503)

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| User Id | plain | Identifier of the user who is deploying the VNFD | String |
| vnfdId | plain | VNFD identifier to be deployed | String |
| cloudType | plain | Type of cloud on which VNFD has to be deployed | String |

**Response parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| Responses code | plain | Denotes success or failure of the action. | xsd:dict |

## Deploy NSD

**POST** cnpl/rest/api/deployNSD

Deploy an onboarded NSD on cloud.

Request should contain the valid nsdId which is already onboarded.

**Normal response codes** 200

**Error response codes**

Bad Request (400), Unauthorized (401), Forbidden (403), Not Found (404), Method Not Allowed (405), conflict (409), Request Entity Too Large (413), Unsupported Media Type (415), Service Unavailable (503)

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| User Id | plain | Identifier of the user who is deploying the NSD | String |
| nsdId | plain | NSD identifier to be deployed | String |
| cloudType | plain | Type of cloud on which NSD has to be deployed | String |

**Response parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| Responses code | plain | Denotes success or failure of the action. | xsd:dict |

## Terminate VNFD

**POST** cnpl/rest/api/terminateVNFD

Terminate an active VNF.

Request should contain the valid vnfdId which is already onboarded.

**Normal response codes** 200

**Error response codes**

Bad Request (400), Unauthorized (401), Forbidden (403), Not Found (404), Method Not Allowed (405), conflict (409), Request Entity Too Large (413), Unsupported Media Type (415), Service Unavailable (503)

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| User Id | plain | Identifier of the user who is terminating the VNF | String |
| vnfdId | plain | VNFD identifier to be terminated | String |
| cloudType | plain | Type of cloud on which VNFD is ACTIVE | String |

**Response parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| Responses code | plain | Denotes success or failure of the action. | xsd:dict |

## Terminate NSD

**POST** cnpl/rest/api/terminateNSD

Terminate an active NSD.

Request should contain the valid nsdId which is already onboarded.

**Normal response codes** 200

**Error response codes**

Bad Request (400), Unauthorized (401), Forbidden (403), Not Found (404), Method Not Allowed (405), conflict (409), Request Entity Too Large (413), Unsupported Media Type (415), Service Unavailable (503)

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| User Id | Plain | Identifier of the user who is terminating the NS | String |
| nsdId | Plain | NSD identifier to be terminated | String |
| cloudType | Plain | Type of cloud on which NSD is ACTIVE | String |

**Response parameters**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | Style | Description | Type |
| Responses code | plain | Denotes success or failure of the action. | xsd:dict |

# Command Line Interfaces

TBD