

# SOL002 - VNF Lifecycle Management

## Notification interface

### Overview

SOL002 - VNF Lifecycle Management Notification interface IMPORTANT: Please note that this file might be not aligned to the current version of the ETSI Group Specification it refers to and has not been approved by the ETSI NFV ISG. In case of discrepancies the published ETSI Group Specification takes precedence. Please report bugs to <https://forge.etsi.org/bugzilla/buglist.cgi?component=Nfv-Openapis>

### Version information

*Version* : 1.5.0-impl:etsi.org:ETSI\_NFV\_OpenAPI:1

### Contact information

*Contact* : NFV-SOL WG

### License information

*License* : ETSI Forge copyright notice

*License URL* : <https://forge.etsi.org/etsi-forge-copyright-notice.txt>

*Terms of service* : null

### URI scheme

*BasePath* : /callback/v1

*Schemes* : HTTP, HTTPS

### Consumes

- `application/json`

### Produces

- `application/json`

### External Docs

*Description* : ETSI GS NFV-SOL 002 V2.8.1

*URL* : [https://www.etsi.org/deliver/etsi\\_gs/NFV-SOL/001\\_099/002/02.08.01\\_60/gs\\_NFV-](https://www.etsi.org/deliver/etsi_gs/NFV-SOL/001_099/002/02.08.01_60/gs_NFV-)

# Paths

## POST /URI-is-provided-by-the-client-when-creating-the-subscription\_VnfIdentifierCreationNotification

### Description

Notify The POST method delivers a notification from the API producer to an API consumer. The API consumer shall have previously created an "Individual subscription" resource with a matching filter.

### Parameters

| Type   | Name  | Description   | Schema   |
|--------|---|---|--|
| Header | <b>Authorization</b><br><i>optional</i>                               | The authorization token for the request.<br>Reference: IETF RFC 7235                                      | string   |
| Header | <b>Content-Type</b><br><i>required</i>                                | The MIME type of the body of the request.<br>Reference: IETF RFC 7231                                     | string   |
| Header | <b>Version</b><br><i>required</i>                                     | Version of the API requested to use when responding to this request.                                      | string   |
| Body   | <b>VnfIdentifierC<br/>reationNotific<br/>ation</b><br><i>required</i> | A notification about the creation of a VNF identifier and the related "Individual VNF instance" resource. | <a href="#">VnfIdentifierCreatio<br/>nNotification</a> |

### VnfIdentifierCreationNotification

| Name  | Description   | Schema  |
|---|---|---|
| <b>_links</b><br><i>required</i>                | This type represents the links to resources that a notification can contain.  | <a href="#">_links</a>                          |
| <b>id</b><br><i>required</i>                    | An identifier with the intention of being globally unique.  | string  |
| <b>notificationTy<br/>pe</b><br><i>required</i> | Discriminator for the different notification types. Shall be set to "VnfIdentifierCreationNotification" for this notification type. | enum<br>(VnfIdentifierCreati<br>onNotification) |

| Name                                     | Description   | Schema             |
|--|---|--------------------|
| <b>subscriptionId</b><br><i>required</i> | An identifier with the intention of being globally unique.                    | string             |
| <b>timeStamp</b><br><i>required</i>      | Date-time stamp. Representation: String formatted according to IETF RFC 3339. | string (date-time) |
| <b>vnfInstanceId</b><br><i>required</i>  | An identifier with the intention of being globally unique.                    | string             |

## links

| Name                                   | Description   | Schema                       |
|--|---|------------------------------|
| <b>subscription</b><br><i>required</i> | This type represents a link to a resource in a notification, using an absolute or relative URI. | <a href="#">subscription</a> |
| <b>vnfInstance</b><br><i>required</i>  | This type represents a link to a resource in a notification, using an absolute or relative URI. | <a href="#">vnfInstance</a>  |
| <b>vnfLcmOpOcc</b><br><i>optional</i>  | This type represents a link to a resource in a notification, using an absolute or relative URI. | <a href="#">vnfLcmOpOcc</a>  |

## subscription

| Name                           | Description                                  | Schema |
|--------------------------------|--|--------|
| <b>href</b><br><i>required</i> | String formatted according to IETF RFC 3986. | string |

## vnfInstance

| Name                           | Description                                  | Schema |
|--------------------------------|--|--------|
| <b>href</b><br><i>required</i> | String formatted according to IETF RFC 3986. | string |

## vnfLcmOpOcc

| Name                           | Description                                  | Schema |
|--------------------------------|--|--------|
| <b>href</b><br><i>required</i> | String formatted according to IETF RFC 3986. | string |

## Responses

| HTTP Code | Description   | Schema     |
|-----------|---|------------|
| 204       | <p>204 NO CONTENT The notification has been delivered successfully.</p> <p><b>Headers :</b></p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | No Content |

| HTTP Code | Description   | Schema       |
|-----------|---|--------------|
| 400       | <p>400 BAD REQUEST 400 code can be returned in the following specified cases, the specific cause has to be proper specified in the "ProblemDetails" structure to be returned. If the request is malformed or syntactically incorrect (e.g. if the request URI contains incorrect query parameters or the payload body contains a syntactically incorrect data structure), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and should include in the "detail" attribute more information about the source of the problem. If the response to a GET request which queries a container resource would be so big that the performance of the API producer is adversely affected, and the API producer does not support paging for the affected resource, it shall respond with this response code. The "ProblemDetails" structure shall be provided, and should include in the "detail" attribute more information about the source of the problem. If there is an application error related to the client's input that cannot be easily mapped to any other HTTP response code ("catch all error"), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and shall include in the "detail" attribute more information about the source of the problem. If the request contains a malformed access token, the API producer should respond with this response. The details of the error shall be returned in the WWW Authenticate HTTP header, as defined in IETF RFC 6750 and IETF RFC 7235. The ProblemDetails structure may be provided. The use of this HTTP error response code described above is applicable to the use of the OAuth 2.0 for the authorization of API requests and notifications, as defined in clauses 4.5.3.3 and 4.5.3.4.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | Response 400 |

| HTTP Code | Description   | Schema                       |
|-----------|---|------------------------------|
| 401       | <p>401 UNAUTHORIZED If the request contains no access token even though one is required, or if the request contains an authorization token that is invalid (e.g. expired or revoked), the API producer should respond with this response. The details of the error shall be returned in the WWW-Authenticate HTTP header, as defined in IETF RFC 6750 and IETF RFC 7235. The ProblemDetails structure may be provided.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | <a href="#">Response 401</a> |
| 403       | <p>403 FORBIDDEN If the API consumer is not allowed to perform a particular request to a particular resource, the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided. It should include in the "detail" attribute information about the source of the problem, and may indicate how to solve it.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>   | <a href="#">Response 403</a> |

| HTTP Code | Description  | Schema                       |
|-----------|--|------------------------------|
| 404       | <p>404 NOT FOUND If the API producer did not find a current representation for the resource addressed by the URI passed in the request or is not willing to disclose that one exists, it shall respond with this response code. The "ProblemDetails" structure may be provided, including in the "detail" attribute information about the source of the problem, e.g. a wrong resource URI variable. This response code is not appropriate in case the resource addressed by the URI is a container resource which is designed to contain child resources, but does not contain any child resource at the time the request is received. For a GET request to an existing empty container resource, a typical response contains a 200 OK response code and a payload body with an empty array.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | <a href="#">Response 404</a> |
| 405       | <p>405 METHOD NOT ALLOWED If a particular HTTP method is not supported for a particular resource, the API producer shall respond with this response code. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>  | <a href="#">Response 405</a> |
| 406       | <p>406 NOT ACCEPTABLE If the "Accept" HTTP header does not contain at least one name of a content type that is acceptable to the API producer, the API producer shall respond with this response code. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>   | <a href="#">Response 406</a> |

| HTTP Code | Description  | Schema       |
|-----------|--|--------------|
| 500       | <p>500 INTERNAL SERVER ERROR If there is an application error not related to the client's input that cannot be easily mapped to any other HTTP response code ("catch all error"), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and shall include in the "detail" attribute more information about the source of the problem.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | Response 500 |
| 503       | <p>503 SERVICE UNAVAILABLE If the API producer encounters an internal overload situation of itself or of a system it relies on, it should respond with this response code, following the provisions in IETF RFC 7231 for the use of the "Retry-After" HTTP header and for the alternative to refuse the connection. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>                        | Response 503 |

## Response 400

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem. | integer      |



| Name                            | Description   | Schema       |
|---------------------------------|---|--------------|
| <b>title</b><br><i>optional</i> | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>  | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

#### Response 401

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |

| Name                           | Description  | Schema       |
|--------------------------------|--|--------------|
| <b>type</b><br><i>optional</i> | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank". | string (URI) |

#### Response 403

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

#### Response 404

| Name                             | Description  | Schema |
|----------------------------------|--|--------|
| <b>detail</b><br><i>required</i> | A human-readable explanation specific to this occurrence of the problem. | string |

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## Response 405

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem. | integer      |

| Name                            | Description   | Schema       |
|---------------------------------|---|--------------|
| <b>title</b><br><i>optional</i> | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>  | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

#### Response 406

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |

| Name                           | Description  | Schema       |
|--------------------------------|--|--------------|
| <b>type</b><br><i>optional</i> | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank". | string (URI) |

## Response 500

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## Response 503

| Name                             | Description  | Schema |
|----------------------------------|--|--------|
| <b>detail</b><br><i>required</i> | A human-readable explanation specific to this occurrence of the problem. | string |

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## GET /URI-is-provided-by-the-client-when-creating-the-subscription\_VnfIdentifierCreationNotification

### Description

The GET method allows the server to test the notification endpoint that is provided by the API consumer, e.g. during subscription.

### Parameters

| Type          | Name                                    | Description  | Schema |
|---------------|---|--|--------|
| <b>Header</b> | <b>Authorization</b><br><i>optional</i> | The authorization token for the request. Reference: IETF RFC 7235    | string |
| <b>Header</b> | <b>Version</b><br><i>required</i>       | Version of the API requested to use when responding to this request. | string |

## Responses

| HTTP Code | Description   | Schema     |
|-----------|---|------------|
| 204       | <p>204 NO CONTENT The notification endpoint has been tested successfully.</p> <p><b>Headers :</b></p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | No Content |

| HTTP Code | Description   | Schema                              |
|-----------|---|-------------------------------------|
| 400       | <p>400 BAD REQUEST 400 code can be returned in the following specified cases, the specific cause has to be proper specified in the "ProblemDetails" structure to be returned. If the request is malformed or syntactically incorrect (e.g. if the request URI contains incorrect query parameters or the payload body contains a syntactically incorrect data structure), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and should include in the "detail" attribute more information about the source of the problem. If the response to a GET request which queries a container resource would be so big that the performance of the API producer is adversely affected, and the API producer does not support paging for the affected resource, it shall respond with this response code. The "ProblemDetails" structure shall be provided, and should include in the "detail" attribute more information about the source of the problem. If there is an application error related to the client's input that cannot be easily mapped to any other HTTP response code ("catch all error"), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and shall include in the "detail" attribute more information about the source of the problem. If the request contains a malformed access token, the API producer should respond with this response. The details of the error shall be returned in the WWW Authenticate HTTP header, as defined in IETF RFC 6750 and IETF RFC 7235. The ProblemDetails structure may be provided. The use of this HTTP error response code described above is applicable to the use of the OAuth 2.0 for the authorization of API requests and notifications, as defined in clauses 4.5.3.3 and 4.5.3.4.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | <p><a href="#">Response 400</a></p> |



| HTTP Code | Description   | Schema                       |
|-----------|---|------------------------------|
| 401       | <p>401 UNAUTHORIZED If the request contains no access token even though one is required, or if the request contains an authorization token that is invalid (e.g. expired or revoked), the API producer should respond with this response. The details of the error shall be returned in the WWW-Authenticate HTTP header, as defined in IETF RFC 6750 and IETF RFC 7235. The ProblemDetails structure may be provided.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | <a href="#">Response 401</a> |
| 403       | <p>403 FORBIDDEN If the API consumer is not allowed to perform a particular request to a particular resource, the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided. It should include in the "detail" attribute information about the source of the problem, and may indicate how to solve it.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>   | <a href="#">Response 403</a> |
| 405       | <p>405 METHOD NOT ALLOWED If a particular HTTP method is not supported for a particular resource, the API producer shall respond with this response code. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>   | <a href="#">Response 405</a> |

| HTTP Code | Description  | Schema                       |
|-----------|--|------------------------------|
| 406       | <p>406 NOT ACCEPTABLE If the "Accept" HTTP header does not contain at least one name of a content type that is acceptable to the API producer, the API producer shall respond with this response code. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>   | <a href="#">Response 406</a> |
| 500       | <p>500 INTERNAL SERVER ERROR If there is an application error not related to the client's input that cannot be easily mapped to any other HTTP response code ("catch all error"), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and shall include in the "detail" attribute more information about the source of the problem.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | <a href="#">Response 500</a> |
| 503       | <p>503 SERVICE UNAVAILABLE If the API producer encounters an internal overload situation of itself or of a system it relies on, it should respond with this response code, following the provisions in IETF RFC 7231 for the use of the "Retry-After" HTTP header and for the alternative to refuse the connection. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>                        | <a href="#">Response 503</a> |

## Response 400

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## Response 401

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem. | integer      |

| Name                            | Description   | Schema       |
|---------------------------------|---|--------------|
| <b>title</b><br><i>optional</i> | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>  | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

### Response 403

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |

| Name                           | Description  | Schema       |
|--------------------------------|--|--------------|
| <b>type</b><br><i>optional</i> | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank". | string (URI) |

#### Response 405

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

#### Response 406

| Name                             | Description  | Schema |
|----------------------------------|--|--------|
| <b>detail</b><br><i>required</i> | A human-readable explanation specific to this occurrence of the problem. | string |

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## Response 500

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem. | integer      |

| Name                            | Description   | Schema       |
|---------------------------------|---|--------------|
| <b>title</b><br><i>optional</i> | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>  | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

### Response 503

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |

| Name                           | Description  | Schema       |
|--------------------------------|--|--------------|
| <b>type</b><br><i>optional</i> | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank". | string (URI) |

## POST /URI-is-provided-by-the-client-when-creating-the-subscription\_VnfIdentifierDeletionNotification

### Description

Notify The POST method delivers a notification from the API producer to an API consumer. The API consumer shall have previously created an "Individual subscription" resource with a matching filter.

### Parameters

| Type          | Name  | Description   | Schema  |
|---------------|---|---|---|
| <b>Header</b> | <b>Authorization</b><br><i>optional</i>                     | The authorization token for the request.<br>Reference: IETF RFC 7235                                      | string  |
| <b>Header</b> | <b>Content-Type</b><br><i>required</i>                      | The MIME type of the body of the request.<br>Reference: IETF RFC 7231                                     | string  |
| <b>Header</b> | <b>Version</b><br><i>required</i>                           | Version of the API requested to use when responding to this request.                                      | string  |
| <b>Body</b>   | <b>VnfIdentifierDeletionNotification</b><br><i>required</i> | A notification about the deletion of a VNF identifier and the related "Individual VNF instance" resource. | <a href="#">VnfIdentifierDeletionNotification</a> |

### VnfIdentifierDeletionNotification

| Name                             | Description  | Schema                 |
|----------------------------------|--|------------------------|
| <b>_links</b><br><i>required</i> | This type represents the links to resources that a notification can contain. | <a href="#">_links</a> |
| <b>id</b><br><i>required</i>     | An identifier with the intention of being globally unique.                   | string                 |



| Name                                       | Description   | Schema                                   |
|--|---|--|
| <b>notificationType</b><br><i>required</i> | Discriminator for the different notification types. Shall be set to "VnfIdentifierDeletionNotification" for this notification type. | enum (VnfIdentifierDeletionNotification) |
| <b>subscriptionId</b><br><i>required</i>   | An identifier with the intention of being globally unique.  | string                                   |
| <b>timeStamp</b><br><i>required</i>        | Date-time stamp. Representation: String formatted according to IETF RFC 3339.   | string (date-time)                       |
| <b>vnfInstanceId</b><br><i>required</i>    | An identifier with the intention of being globally unique.  | string                                   |

## links

| Name                                   | Description   | Schema                       |
|--|---|------------------------------|
| <b>subscription</b><br><i>required</i> | This type represents a link to a resource in a notification, using an absolute or relative URI. | <a href="#">subscription</a> |
| <b>vnfInstance</b><br><i>required</i>  | This type represents a link to a resource in a notification, using an absolute or relative URI. | <a href="#">vnfInstance</a>  |
| <b>vnfLcmOpOcc</b><br><i>optional</i>  | This type represents a link to a resource in a notification, using an absolute or relative URI. | <a href="#">vnfLcmOpOcc</a>  |

## subscription

| Name                           | Description                                  | Schema |
|--------------------------------|--|--------|
| <b>href</b><br><i>required</i> | String formatted according to IETF RFC 3986. | string |

## vnfInstance

| Name                           | Description                                  | Schema |
|--------------------------------|--|--------|
| <b>href</b><br><i>required</i> | String formatted according to IETF RFC 3986. | string |

## vnfLcmOpOcc

| Name                           | Description                                  | Schema |
|--------------------------------|--|--------|
| <b>href</b><br><i>required</i> | String formatted according to IETF RFC 3986. | string |

## Responses

| HTTP Code  | Description   | Schema     |
|------------|---|------------|
| <b>204</b> | <p>204 NO CONTENT The notification has been delivered successfully.</p> <p><b>Headers :</b></p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | No Content |

| HTTP Code | Description   | Schema       |
|-----------|---|--------------|
| 400       | <p>400 BAD REQUEST 400 code can be returned in the following specified cases, the specific cause has to be proper specified in the "ProblemDetails" structure to be returned. If the request is malformed or syntactically incorrect (e.g. if the request URI contains incorrect query parameters or the payload body contains a syntactically incorrect data structure), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and should include in the "detail" attribute more information about the source of the problem. If the response to a GET request which queries a container resource would be so big that the performance of the API producer is adversely affected, and the API producer does not support paging for the affected resource, it shall respond with this response code. The "ProblemDetails" structure shall be provided, and should include in the "detail" attribute more information about the source of the problem. If there is an application error related to the client's input that cannot be easily mapped to any other HTTP response code ("catch all error"), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and shall include in the "detail" attribute more information about the source of the problem. If the request contains a malformed access token, the API producer should respond with this response. The details of the error shall be returned in the WWW Authenticate HTTP header, as defined in IETF RFC 6750 and IETF RFC 7235. The ProblemDetails structure may be provided. The use of this HTTP error response code described above is applicable to the use of the OAuth 2.0 for the authorization of API requests and notifications, as defined in clauses 4.5.3.3 and 4.5.3.4.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | Response 400 |

| HTTP Code | Description   | Schema                       |
|-----------|---|------------------------------|
| 401       | <p>401 UNAUTHORIZED If the request contains no access token even though one is required, or if the request contains an authorization token that is invalid (e.g. expired or revoked), the API producer should respond with this response. The details of the error shall be returned in the WWW-Authenticate HTTP header, as defined in IETF RFC 6750 and IETF RFC 7235. The ProblemDetails structure may be provided.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | <a href="#">Response 401</a> |
| 403       | <p>403 FORBIDDEN If the API consumer is not allowed to perform a particular request to a particular resource, the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided. It should include in the "detail" attribute information about the source of the problem, and may indicate how to solve it.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>   | <a href="#">Response 403</a> |

| HTTP Code | Description  | Schema                       |
|-----------|--|------------------------------|
| 404       | <p>404 NOT FOUND If the API producer did not find a current representation for the resource addressed by the URI passed in the request or is not willing to disclose that one exists, it shall respond with this response code. The "ProblemDetails" structure may be provided, including in the "detail" attribute information about the source of the problem, e.g. a wrong resource URI variable. This response code is not appropriate in case the resource addressed by the URI is a container resource which is designed to contain child resources, but does not contain any child resource at the time the request is received. For a GET request to an existing empty container resource, a typical response contains a 200 OK response code and a payload body with an empty array.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | <a href="#">Response 404</a> |
| 405       | <p>405 METHOD NOT ALLOWED If a particular HTTP method is not supported for a particular resource, the API producer shall respond with this response code. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>  | <a href="#">Response 405</a> |
| 406       | <p>406 NOT ACCEPTABLE If the "Accept" HTTP header does not contain at least one name of a content type that is acceptable to the API producer, the API producer shall respond with this response code. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>   | <a href="#">Response 406</a> |

| HTTP Code | Description  | Schema       |
|-----------|--|--------------|
| 500       | <p>500 INTERNAL SERVER ERROR If there is an application error not related to the client's input that cannot be easily mapped to any other HTTP response code ("catch all error"), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and shall include in the "detail" attribute more information about the source of the problem.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | Response 500 |
| 503       | <p>503 SERVICE UNAVAILABLE If the API producer encounters an internal overload situation of itself or of a system it relies on, it should respond with this response code, following the provisions in IETF RFC 7231 for the use of the "Retry-After" HTTP header and for the alternative to refuse the connection. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>                        | Response 503 |

## Response 400

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem. | integer      |

| Name                            | Description   | Schema       |
|---------------------------------|---|--------------|
| <b>title</b><br><i>optional</i> | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>  | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

#### Response 401

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |

| Name                           | Description  | Schema       |
|--------------------------------|--|--------------|
| <b>type</b><br><i>optional</i> | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank". | string (URI) |

#### Response 403

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

#### Response 404

| Name                             | Description  | Schema |
|----------------------------------|--|--------|
| <b>detail</b><br><i>required</i> | A human-readable explanation specific to this occurrence of the problem. | string |



| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## Response 405

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem. | integer      |

| Name                            | Description   | Schema       |
|---------------------------------|---|--------------|
| <b>title</b><br><i>optional</i> | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>  | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

#### Response 406

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |

| Name                           | Description  | Schema       |
|--------------------------------|--|--------------|
| <b>type</b><br><i>optional</i> | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank". | string (URI) |

## Response 500

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## Response 503

| Name                             | Description  | Schema |
|----------------------------------|--|--------|
| <b>detail</b><br><i>required</i> | A human-readable explanation specific to this occurrence of the problem. | string |

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## GET /URI-is-provided-by-the-client-when-creating-the-subscription\_VnfIdentifierDeletionNotification

### Description

The GET method allows the server to test the notification endpoint that is provided by the API consumer, e.g. during subscription.

### Parameters

| Type          | Name                                    | Description  | Schema |
|---------------|---|--|--------|
| <b>Header</b> | <b>Authorization</b><br><i>optional</i> | The authorization token for the request. Reference: IETF RFC 7235    | string |
| <b>Header</b> | <b>Version</b><br><i>required</i>       | Version of the API requested to use when responding to this request. | string |

## Responses

| HTTP Code | Description   | Schema     |
|-----------|---|------------|
| 204       | <p>No Content The notification endpoint has been tested successfully.</p> <p><b>Headers :</b></p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | No Content |

| HTTP Code | Description   | Schema                              |
|-----------|---|-------------------------------------|
| 400       | <p>400 BAD REQUEST 400 code can be returned in the following specified cases, the specific cause has to be proper specified in the "ProblemDetails" structure to be returned. If the request is malformed or syntactically incorrect (e.g. if the request URI contains incorrect query parameters or the payload body contains a syntactically incorrect data structure), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and should include in the "detail" attribute more information about the source of the problem. If the response to a GET request which queries a container resource would be so big that the performance of the API producer is adversely affected, and the API producer does not support paging for the affected resource, it shall respond with this response code. The "ProblemDetails" structure shall be provided, and should include in the "detail" attribute more information about the source of the problem. If there is an application error related to the client's input that cannot be easily mapped to any other HTTP response code ("catch all error"), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and shall include in the "detail" attribute more information about the source of the problem. If the request contains a malformed access token, the API producer should respond with this response. The details of the error shall be returned in the WWW Authenticate HTTP header, as defined in IETF RFC 6750 and IETF RFC 7235. The ProblemDetails structure may be provided. The use of this HTTP error response code described above is applicable to the use of the OAuth 2.0 for the authorization of API requests and notifications, as defined in clauses 4.5.3.3 and 4.5.3.4.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | <p><a href="#">Response 400</a></p> |

| HTTP Code | Description   | Schema                       |
|-----------|---|------------------------------|
| 401       | <p>401 UNAUTHORIZED If the request contains no access token even though one is required, or if the request contains an authorization token that is invalid (e.g. expired or revoked), the API producer should respond with this response. The details of the error shall be returned in the WWW-Authenticate HTTP header, as defined in IETF RFC 6750 and IETF RFC 7235. The ProblemDetails structure may be provided.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | <a href="#">Response 401</a> |
| 403       | <p>403 FORBIDDEN If the API consumer is not allowed to perform a particular request to a particular resource, the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided. It should include in the "detail" attribute information about the source of the problem, and may indicate how to solve it.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>   | <a href="#">Response 403</a> |
| 405       | <p>405 METHOD NOT ALLOWED If a particular HTTP method is not supported for a particular resource, the API producer shall respond with this response code. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>   | <a href="#">Response 405</a> |

| HTTP Code | Description  | Schema                       |
|-----------|--|------------------------------|
| 406       | <p>406 NOT ACCEPTABLE If the "Accept" HTTP header does not contain at least one name of a content type that is acceptable to the API producer, the API producer shall respond with this response code. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>   | <a href="#">Response 406</a> |
| 500       | <p>500 INTERNAL SERVER ERROR If there is an application error not related to the client's input that cannot be easily mapped to any other HTTP response code ("catch all error"), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and shall include in the "detail" attribute more information about the source of the problem.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | <a href="#">Response 500</a> |
| 503       | <p>503 SERVICE UNAVAILABLE If the API producer encounters an internal overload situation of itself or of a system it relies on, it should respond with this response code, following the provisions in IETF RFC 7231 for the use of the "Retry-After" HTTP header and for the alternative to refuse the connection. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>                        | <a href="#">Response 503</a> |

## Response 400



| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## Response 401

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem. | integer      |

| Name                            | Description   | Schema       |
|---------------------------------|---|--------------|
| <b>title</b><br><i>optional</i> | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>  | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

### Response 403

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |

| Name                           | Description  | Schema       |
|--------------------------------|--|--------------|
| <b>type</b><br><i>optional</i> | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank". | string (URI) |

#### Response 405

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

#### Response 406

| Name                             | Description  | Schema |
|----------------------------------|--|--------|
| <b>detail</b><br><i>required</i> | A human-readable explanation specific to this occurrence of the problem. | string |

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## Response 500

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem. | integer      |

| Name                            | Description   | Schema       |
|---------------------------------|---|--------------|
| <b>title</b><br><i>optional</i> | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>  | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

### Response 503

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |

| Name                           | Description  | Schema       |
|--------------------------------|--|--------------|
| <b>type</b><br><i>optional</i> | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank". | string (URI) |

## POST /URI-is-provided-by-the-client-when-creating-the-subscription\_VnfLcmOperationOccurrenceNotification

### Description

Notify The POST method delivers a notification from the API producer to an API consumer. The API consumer shall have previously created an "Individual subscription" resource with a matching filter.

### Parameters

| Type          | Name  | Description   | Schema  |
|---------------|---|---|---|
| <b>Header</b> | <b>Authorization</b><br><i>optional</i>                         | The authorization token for the request.<br>Reference: IETF RFC 7235                | string  |
| <b>Header</b> | <b>Content-Type</b><br><i>required</i>                          | The MIME type of the body of the request.<br>Reference: IETF RFC 7231               | string  |
| <b>Header</b> | <b>Version</b><br><i>required</i>                               | Version of the API requested to use when responding to this request.                | string  |
| <b>Body</b>   | <b>VnfLcmOperationOccurrenceNotification</b><br><i>required</i> | A notification about lifecycle changes triggered by a VNF LCM operation occurrence. | <a href="#">VnfLcmOperationOccurrenceNotification</a> |

### VnfLcmOperationOccurrenceNotification

| Name                             | Description  | Schema                 |
|----------------------------------|--|------------------------|
| <b>_links</b><br><i>required</i> | This type represents the links to resources that a notification can contain. | <a href="#">_links</a> |

| Name  | Description  | Schema  |
|---|--|---|
| <b>affectedExtLinkPorts</b><br><i>optional</i>    | <p>Information about external VNF link ports that were affected during the lifecycle operation. See note 1. NOTE 1: Shall be present if the "notificationStatus" is set to "RESULT" and the operation has performed any resource modification. Shall be absent otherwise. This attribute contains information about the cumulative changes to virtualised resources that were performed so far by the VNF LCM operation occurrence and by any of the error handling procedures for that operation occurrence.</p>  | <p>&lt;<br/> <a href="#">affectedExtLinkPorts</a> &gt; array</p>    |
| <b>affectedVirtualLinks</b><br><i>optional</i>    | <p>Information about VL instances that were affected during the lifecycle operation. NOTE 1: Shall be present if the "notificationStatus" is set to "RESULT" and the operation has performed any resource modification. Shall be absent otherwise. This attribute contains information about the cumulative changes to virtualised resources that were performed so far by the VNF LCM operation occurrence and by any of the error handling procedures for that operation occurrence. NOTE 2: For a particular affected VL, there shall be as many "AffectedVirtualLink" entries as needed for signalling the different types of changes, i.e., one per virtual link and change type. For instance, in the case of signaling affected VL instances involving the addition of a particular VL instance with links ports, one "AffectedVirtualLink" entry signals the addition of the VL by using the "changeType" attribute of "AffectedVirtualLink" structure equal to "ADDED", and another "AffectedVirtualLink" entry signals the addition of externally visible VNF link ports of the VL by using the "changeType" equal to "LINK_PORT_ADDED".</p> | <p>&lt;<br/> <a href="#">affectedVirtualLinks</a> &gt; array</p>    |
| <b>affectedVirtualStorages</b><br><i>optional</i> | <p>Information about virtualised storage instances that were affected during the lifecycle operation. Shall be present if the "notificationStatus" is set to "RESULT" and the operation has performed any resource modification. Shall be absent otherwise. This attribute contains information about the cumulative changes to virtualised resources that were performed so far by the VNF LCM operation occurrence and by any of the error handling procedures for that operation occurrence.</p>  | <p>&lt;<br/> <a href="#">affectedVirtualStorages</a> &gt; array</p> |

| Name   | Description  | Schema                                     |
|--|--|--|
| <b>affectedVnfcs</b><br><i>optional</i>          | Information about VNFC instances that were affected during the lifecycle operation. Shall be present if the "notificationStatus" is set to "RESULT" and the operation has performed any resource modification. Shall be absent otherwise. This attribute contains information about the cumulative changes to virtualised resources that were performed so far by the VNF LCM operation occurrence and by any of the error handling procedures for that operation occurrence.  | < <b>affectedVnfcs</b> ><br>array          |
| <b>changedExtConnectivity</b><br><i>optional</i> | Information about changed external connectivity, if this notification represents the result of a lifecycle operation occurrence. Shall be present if the "notificationStatus" is set to "RESULT" and the "operation" has made any changes to the external connectivity of the VNF instance. Shall be absent otherwise. Only information about external VL instances that have been added or modified shall be provided.  | < <b>changedExtConnectivity</b> ><br>array |
| <b>changedInfo</b><br><i>optional</i>            | This type represents attribute modifications that were performed on an "Individual VNF instance" resource. The attributes that can be included consist of those requested to be modified explicitly in the "VnfInfoModificationRequest" data structure, and additional attributes of the "VnfInstance" data structure that were modified implicitly e.g. when modifying the referenced VNF package.  | <b>changedInfo</b>                         |
| <b>error</b><br><i>optional</i>                  | The definition of the general "ProblemDetails" data structure from IETF RFC 7807 [19] is reproduced in this structure. Compared to the general framework defined in IETF RFC 7807 [19], the "status" and "detail" attributes are mandated to be included by the present document, to ensure that the response contains additional textual information about an error. IETF RFC 7807 [19] foresees extensibility of the "ProblemDetails" type. It is possible that particular APIs in the present document, or particular implementations, define extensions to define additional attributes that provide more information about the error. The description column only provides some explanation of the meaning to Facilitate understanding of the design. For a full description, see IETF RFC 7807 [19]. | <b>error</b>                               |
| <b>id</b><br><i>required</i>                     | An identifier with the intention of being globally unique.   | string                                     |



| Name  | Description  | Schema  |
|---|--|---|
| <b>isAutomaticInvocation</b><br><i>required</i> | Set to true if this VNF LCM operation occurrence has been triggered by an automated procedure inside the VNFM (i.e. ScaleVnf / ScaleVnfToLevel triggered by auto-scale, or HealVnf triggered by auto-heal). Set to false otherwise.  | boolean   |
| <b>notificationStatus</b><br><i>required</i>    | Indicates whether this notification reports about the start of a lifecycle operation or the result of a lifecycle operation. Permitted values: * START: Informs about the start of the VNF LCM operation occurrence. * RESULT: Informs about the final or intermediate result of the VNF LCM operation occurrence.   | enum (START, RESULT)  |
| <b>notificationType</b><br><i>required</i>      | Discriminator for the different notification types. Shall be set to "VnfLcmOperationOccurrenceNotification" for this notification type.  | enum (VnfLcmOperationOccurrenceNotification)  |
| <b>operation</b><br><i>required</i>             | Value   Description — ——— INSTANTIATE   Represents the "Instantiate VNF" LCM operation. SCALE   Represents the "Scale VNF" LCM operation. SCALE_TO_LEVEL   Represents the "Scale VNF to Level" LCM operation. CHANGE_FLAVOUR   Represents the "Change VNF Flavour" LCM operation. TERMINATE   Represents the "Terminate VNF" LCM operation. HEAL   Represents the "Heal VNF" LCM operation. OPERATE   Represents the "Operate VNF" LCM operation. CHANGE_EXT_CONN   Represents the "Change external VNF connectivity" LCM operation. MODIFY_INFO   Represents the "Modify VNF Information" LCM operation.  | enum (INSTANTIATE, SCALE, SCALE_TO_LEVEL, CHANGE_FLAVOUR, TERMINATE, HEAL, OPERATE, CHANGE_EXT_CONN, MODIFY_INFO) |
| <b>operationState</b><br><i>required</i>        | STARTING: The LCM operation is starting. PROCESSING: The LCM operation is currently in execution. COMPLETED: The LCM operation has been completed successfully. FAILED_TEMP: The LCM operation has failed and execution has stopped, but the execution of the operation is not considered to be closed. FAILED: The LCM operation has failed and it cannot be retried or rolled back, as it is determined that such action won't succeed. ROLLING_BACK: The LCM operation is currently being rolled back. ROLLED_BACK: The LCM operation has been successfully rolled back, i.e. The state of the VNF prior to the original operation invocation has been restored as closely as possible. | enum (STARTING, PROCESSING, COMPLETED, FAILED_TEMP, FAILED, ROLLING_BACK, ROLLED_BACK)                            |

| Name                                     | Description   | Schema             |
|--|---|--------------------|
| <b>subscriptionId</b><br><i>required</i> | An identifier with the intention of being globally unique.                    | string             |
| <b>timeStamp</b><br><i>required</i>      | Date-time stamp. Representation: String formatted according to IETF RFC 3339. | string (date-time) |
| <b>vnfInstanceId</b><br><i>required</i>  | An identifier with the intention of being globally unique.                    | string             |
| <b>vnfLcmOpOccId</b><br><i>required</i>  | An identifier with the intention of being globally unique.                    | string             |

## links

| Name                                   | Description   | Schema                       |
|--|---|------------------------------|
| <b>subscription</b><br><i>required</i> | This type represents a link to a resource in a notification, using an absolute or relative URI. | <a href="#">subscription</a> |
| <b>vnfInstance</b><br><i>required</i>  | This type represents a link to a resource in a notification, using an absolute or relative URI. | <a href="#">vnfInstance</a>  |
| <b>vnfLcmOpOcc</b><br><i>optional</i>  | This type represents a link to a resource in a notification, using an absolute or relative URI. | <a href="#">vnfLcmOpOcc</a>  |

## subscription

| Name                           | Description                                  | Schema |
|--------------------------------|--|--------|
| <b>href</b><br><i>required</i> | String formatted according to IETF RFC 3986. | string |

## vnfInstance

| Name                           | Description                                  | Schema |
|--------------------------------|--|--------|
| <b>href</b><br><i>required</i> | String formatted according to IETF RFC 3986. | string |

## vnfLcmOpOcc

| Name                           | Description                                  | Schema |
|--------------------------------|--|--------|
| <b>href</b><br><i>required</i> | String formatted according to IETF RFC 3986. | string |

#### affectedExtLinkPorts

| Name                                      | Description  | Schema                         |
|---|--|--------------------------------|
| <b>changeType</b><br><i>required</i>      | Signals the type of change. Permitted values: - ADDED - REMOVED  | enum (ADDED, REMOVED)          |
| <b>extCpInstanceId</b><br><i>required</i> | An identifier that is unique for the respective type within a VNF instance, but may not be globally unique.  | string                         |
| <b>id</b><br><i>required</i>              | An identifier that is unique for the respective type within a VNF instance, but may not be globally unique.  | string                         |
| <b>resourceHandle</b><br><i>required</i>  | This type represents the information that allows addressing a virtualised resource that is used by a VNF instance. Information about the resource is available from the VIM. | <a href="#">resourceHandle</a> |

#### resourceHandle

| Name   | Description   | Schema |
|--|---|--------|
| <b>resourceId</b><br><i>required</i>           | An identifier maintained by the VIM or other resource provider. It is expected to be unique within the VIM instance.  | string |
| <b>resourceProviderId</b><br><i>optional</i>   | An identifier with the intention of being globally unique.  | string |
| <b>vimConnectionId</b><br><i>optional</i>      | An identifier with the intention of being globally unique.  | string |
| <b>vimLevelResourceType</b><br><i>optional</i> | The value set of the "vimLevelResourceType" attribute is within the scope of the VIM or the resource provider and can be used as information that complements the ResourceHandle. This value set is different from the value set of the "type" attribute in the ResourceDefinition (refer to clause 9.5.3.2 in SOL003). | string |

## affectedVirtualLinks

| Name   | Description   | Schema   |
|--|---|--|
| <b>changeType</b><br><i>required</i>           | Signals the type of change. Permitted values: * ADDED * REMOVED * MODIFIED * TEMPORARY * LINK_PORT_ADDED * LINK_PORT_REMOVED For a temporary resource, an AffectedVirtualLink structure exists as long as the temporary resource exists.  | enum (ADDED, REMOVED, MODIFIED, TEMPORARY, LINK_PORT_ADDED, LINK_PORT_REMOVED) |
| <b>id</b><br><i>required</i>                   | An identifier that is unique for the respective type within a VNF instance, but may not be globally unique.   | string   |
| <b>metadata</b><br><i>optional</i>             | This type represents a list of key-value pairs. The order of the pairs in the list is not significant. In JSON, a set of keyvalue pairs is represented as an object. It shall comply with the provisions defined in clause 4 of IETF RFC 8259. In the following example, a list of key-value pairs with four keys ("aString", "aNumber", "anArray" and "anObject") is provided to illustrate that the values associated with different keys can be of different type. | object   |
| <b>networkResource</b><br><i>required</i>      | This type represents the information that allows addressing a virtualised resource that is used by a VNF instance. Information about the resource is available from the VIM.  | <a href="#">networkResource</a>  |
| <b>resourceDefinitionId</b><br><i>optional</i> | An identifier that is unique within a limited local scope other than above listed identifiers, such as within a complex data structure or within a request-response pair. Representation: string of variable length.  | string   |
| <b>vnfVirtualLinkDescId</b><br><i>required</i> | An identifier that is unique within a VNF descriptor.   | string   |
| <b>zoneId</b><br><i>optional</i>               | An identifier with the intention of being globally unique.  | string   |

## networkResource

| Name   | Description   | Schema |
|--|---|--------|
| <b>resourceId</b><br><i>required</i>           | An identifier maintained by the VIM or other resource provider. It is expected to be unique within the VIM instance.  | string |
| <b>resourceProviderId</b><br><i>optional</i>   | An identifier with the intention of being globally unique.  | string |
| <b>vimConnectionId</b><br><i>optional</i>      | An identifier with the intention of being globally unique.  | string |
| <b>vimLevelResourceType</b><br><i>optional</i> | The value set of the "vimLevelResourceType" attribute is within the scope of the VIM or the resource provider and can be used as information that complements the ResourceHandle. This value set is different from the value set of the "type" attribute in the ResourceDefinition (refer to clause 9.5.3.2 in SOL003). | string |

#### affectedVirtualStorages

| Name   | Description   | Schema                                     |
|--|---|--|
| <b>changeType</b><br><i>required</i>           | Signals the type of change. Permitted values: * ADDED * REMOVED * MODIFIED * TEMPORARY For a temporary resource, an AffectedVirtualStorage structure exists as long as the temporary resource exists.   | enum (ADDED, REMOVED, MODIFIED, TEMPORARY) |
| <b>id</b><br><i>required</i>                   | An identifier that is unique for the respective type within a VNF instance, but may not be globally unique.   | string                                     |
| <b>metadata</b><br><i>optional</i>             | This type represents a list of key-value pairs. The order of the pairs in the list is not significant. In JSON, a set of keyvalue pairs is represented as an object. It shall comply with the provisions defined in clause 4 of IETF RFC 8259. In the following example, a list of key-value pairs with four keys ("aString", "aNumber", "anArray" and "anObject") is provided to illustrate that the values associated with different keys can be of different type. | object                                     |
| <b>resourceDefinitionId</b><br><i>optional</i> | An identifier that is unique within a limited local scope other than above listed identifiers, such as within a complex data structure or within a request-response pair. Representation: string of variable length.  | string                                     |

| Name   | Description  | Schema                          |
|--|--|---------------------------------|
| <b>storageResource</b><br><i>required</i>      | This type represents the information that allows addressing a virtualised resource that is used by a VNF instance. Information about the resource is available from the VIM. | <a href="#">storageResource</a> |
| <b>virtualStorageDescId</b><br><i>required</i> | An identifier that is unique within a VNF descriptor.  | string                          |

#### storageResource

| Name   | Description   | Schema |
|--|---|--------|
| <b>resourceId</b><br><i>required</i>           | An identifier maintained by the VIM or other resource provider. It is expected to be unique within the VIM instance.  | string |
| <b>resourceProviderId</b><br><i>optional</i>   | An identifier with the intention of being globally unique.  | string |
| <b>vimConnectionId</b><br><i>optional</i>      | An identifier with the intention of being globally unique.  | string |
| <b>vimLevelResourceType</b><br><i>optional</i> | The value set of the "vimLevelResourceType" attribute is within the scope of the VIM or the resource provider and can be used as information that complements the ResourceHandle. This value set is different from the value set of the "type" attribute in the ResourceDefinition (refer to clause 9.5.3.2 in SOL003). | string |

#### affectedVnfcs

| Name  | Description   | Schema           |
|---|---|------------------|
| <b>addedStorageResourceIds</b><br><i>optional</i> | References to VirtualStorage resources that have been added. Each value refers to a VirtualStorageResourceInfo item in the VnfInstance that was added to the VNFC. It shall be provided if at least one storage resource was added to the VNFC. | < string > array |

| Name  | Description   | Schema                                     |
|---|---|--|
| <b>affectedVnfcCpIds</b><br><i>optional</i>         | Identifiers of CP(s) of the VNFC instance that were affected by the change. Shall be present for those affected CPs of the VNFC instance that are associated to an external CP of the VNF instance. May be present for further affected CPs of the VNFC instance.   | < string > array                           |
| <b>changeType</b><br><i>required</i>                | Signals the type of change. Permitted values: * ADDED * REMOVED * MODIFIED * TEMPORARY For a temporary resource, an AffectedVnfc structure exists as long as the temporary resource exists.   | enum (ADDED, REMOVED, MODIFIED, TEMPORARY) |
| <b>computeResource</b><br><i>required</i>           | This type represents the information that allows addressing a virtualised resource that is used by a VNF instance. Information about the resource is available from the VIM.  | <a href="#">computeResource</a>            |
| <b>id</b><br><i>required</i>                        | An identifier that is unique for the respective type within a VNF instance, but may not be globally unique.   | string                                     |
| <b>metadata</b><br><i>optional</i>                  | This type represents a list of key-value pairs. The order of the pairs in the list is not significant. In JSON, a set of keyvalue pairs is represented as an object. It shall comply with the provisions defined in clause 4 of IETF RFC 8259. In the following example, a list of key-value pairs with four keys ("aString", "aNumber", "anArray" and "anObject") is provided to illustrate that the values associated with different keys can be of different type. | object                                     |
| <b>removedStorageResourceIds</b><br><i>optional</i> | References to VirtualStorage resources that have been removed. The value contains the identifier of a VirtualStorageResourceInfo item that has been removed from the VNFC, and might no longer exist in the VnfInstance. It shall be provided if at least one storage resource was removed from the VNFC.   | < string > array                           |
| <b>resourceDefinitionId</b><br><i>optional</i>      | An identifier that is unique within a limited local scope other than above listed identifiers, such as within a complex data structure or within a request-response pair. Representation: string of variable length.  | string                                     |
| <b>vduId</b><br><i>required</i>                     | An identifier that is unique within a VNF descriptor.   | string                                     |
| <b>zoneId</b><br><i>optional</i>                    | An identifier with the intention of being globally unique.  | string                                     |

## computeResource

| Name   | Description   | Schema |
|--|---|--------|
| <b>resourceId</b><br><i>required</i>           | An identifier maintained by the VIM or other resource provider. It is expected to be unique within the VIM instance.  | string |
| <b>resourceProviderId</b><br><i>optional</i>   | An identifier with the intention of being globally unique.  | string |
| <b>vimConnectionId</b><br><i>optional</i>      | An identifier with the intention of being globally unique.  | string |
| <b>vimLevelResourceType</b><br><i>optional</i> | The value set of the "vimLevelResourceType" attribute is within the scope of the VIM or the resource provider and can be used as information that complements the ResourceHandle. This value set is different from the value set of the "type" attribute in the ResourceDefinition (refer to clause 9.5.3.2 in SOL003). | string |

## changedExtConnectivity

| Name                                     | Description  | Schema                                    |
|--|--|---|
| <b>extLinkPorts</b><br><i>optional</i>   | Link ports of this VL.   | < <a href="#">extLinkPorts</a> ><br>array |
| <b>id</b><br><i>required</i>             | An identifier with the intention of being globally unique.   | string                                    |
| <b>resourceHandle</b><br><i>required</i> | This type represents the information that allows addressing a virtualised resource that is used by a VNF instance. Information about the resource is available from the VIM. | <a href="#">resourceHandle</a>            |

## extLinkPorts

| Name                                   | Description   | Schema |
|--|---|--------|
| <b>cpInstanceId</b><br><i>optional</i> | An identifier that is unique for the respective type within a VNF instance, but may not be globally unique. | string |
| <b>id</b><br><i>required</i>           | An identifier with the intention of being globally unique.  | string |



| Name                                     | Description  | Schema                         |
|--|--|--------------------------------|
| <b>resourceHandle</b><br><i>required</i> | This type represents the information that allows addressing a virtualised resource that is used by a VNF instance. Information about the resource is available from the VIM. | <a href="#">resourceHandle</a> |

## resourceHandle

| Name   | Description   | Schema |
|--|---|--------|
| <b>resourceId</b><br><i>required</i>           | An identifier maintained by the VIM or other resource provider. It is expected to be unique within the VIM instance.  | string |
| <b>resourceProviderId</b><br><i>optional</i>   | An identifier with the intention of being globally unique.  | string |
| <b>vimConnectionId</b><br><i>optional</i>      | An identifier with the intention of being globally unique.  | string |
| <b>vimLevelResourceType</b><br><i>optional</i> | The value set of the "vimLevelResourceType" attribute is within the scope of the VIM or the resource provider and can be used as information that complements the ResourceHandle. This value set is different from the value set of the "type" attribute in the ResourceDefinition (refer to clause 9.5.3.2 in SOL003). | string |

## resourceHandle

| Name   | Description  | Schema |
|--|--|--------|
| <b>resourceId</b><br><i>required</i>         | An identifier maintained by the VIM or other resource provider. It is expected to be unique within the VIM instance. | string |
| <b>resourceProviderId</b><br><i>optional</i> | An identifier with the intention of being globally unique.   | string |
| <b>vimConnectionId</b><br><i>optional</i>    | An identifier with the intention of being globally unique.   | string |

| Name   | Description   | Schema |
|--|---|--------|
| <b>vimLevelResourceType</b><br><i>optional</i> | The value set of the "vimLevelResourceType" attribute is within the scope of the VIM or the resource provider and can be used as information that complements the ResourceHandle. This value set is different from the value set of the "type" attribute in the ResourceDefinition (refer to clause 9.5.3.2 in SOL003). | string |

#### changedInfo

| Name  | Description   | Schema |
|---|---|--------|
| <b>extensions</b><br><i>optional</i>                | This type represents a list of key-value pairs. The order of the pairs in the list is not significant. In JSON, a set of keyvalue pairs is represented as an object. It shall comply with the provisions defined in clause 4 of IETF RFC 8259. In the following example, a list of key-value pairs with four keys ("aString", "aNumber", "anArray" and "anObject") is provided to illustrate that the values associated with different keys can be of different type. | object |
| <b>metadata</b><br><i>optional</i>                  | This type represents a list of key-value pairs. The order of the pairs in the list is not significant. In JSON, a set of keyvalue pairs is represented as an object. It shall comply with the provisions defined in clause 4 of IETF RFC 8259. In the following example, a list of key-value pairs with four keys ("aString", "aNumber", "anArray" and "anObject") is provided to illustrate that the values associated with different keys can be of different type. | object |
| <b>vnfConfigurableProperties</b><br><i>optional</i> | This type represents a list of key-value pairs. The order of the pairs in the list is not significant. In JSON, a set of keyvalue pairs is represented as an object. It shall comply with the provisions defined in clause 4 of IETF RFC 8259. In the following example, a list of key-value pairs with four keys ("aString", "aNumber", "anArray" and "anObject") is provided to illustrate that the values associated with different keys can be of different type. | object |
| <b>vnfInstanceDescription</b><br><i>optional</i>    | If present, this attribute signals modifications of the "vnfInstanceDescription" attribute in "VnfInstance".  | string |

| Name   | Description  | Schema  |
|--|--|---|
| <b>vnfInstanceName</b><br><i>optional</i>                | If present, this attribute signals modifications of the "vnfInstanceName" attribute in "VnfInstance".  | string  |
| <b>vnfProductName</b><br><i>optional</i>                 | If present, this attribute signals modifications of the "vnfProductName" attribute in "VnfInstance". If present, this attribute (which depends on the value of the "vnfPkgId" attribute) was modified implicitly following a request to modify the "vnfPkgId" attribute, by copying the value of this attribute from the VNFD in the VNF Package identified by the "vnfPkgId" attribute. | string  |
| <b>vnfProvider</b><br><i>optional</i>                    | If present, this attribute signals modifications of the "vnfProvider" attribute in "VnfInstance". If present, this attribute (which depends on the value of the "vnfPkgId" attribute) was modified implicitly following a request to modify the "vnfPkgId" attribute, by copying the value of this attribute from the VNFD in the VNF Package identified by the "vnfPkgId" attribute.    | string  |
| <b>vnfSoftwareVersion</b><br><i>optional</i>             | A version.   | string  |
| <b>vnfcInfoModifications</b><br><i>optional</i>          | If present, this attribute signals modifications of certain entries in the "vnfcInfo" attribute array in the "instantiatedVnfInfo" attribute of "VnfInstance", as defined in clause 5.5.2.12   | < <a href="#">vnfcInfoModifications</a> > array |
| <b>vnfcInfoModificationsDeleteIds</b><br><i>optional</i> | If present, this attribute signals the deletion of certain entries in the "vnfcInfo" attribute array in the "instantiatedVnfInfo" attribute of "VnfInstance", as defined in clause 5.5.2.12  | < string > array                                |
| <b>vnfdId</b><br><i>optional</i>                         | An identifier with the intention of being globally unique.   | string  |
| <b>vnfdVersion</b><br><i>optional</i>                    | A version.   | string  |

## vnfcInfoModifications

| Name   | Description   | Schema |
|--|---|--------|
| <b>id</b><br><i>required</i>                         | An identifier that is unique for the respective type within a VNF instance, but may not be globally unique.   | string |
| <b>vnfcConfigurableProperties</b><br><i>required</i> | This type represents a list of key-value pairs. The order of the pairs in the list is not significant. In JSON, a set of keyvalue pairs is represented as an object. It shall comply with the provisions defined in clause 4 of IETF RFC 8259. In the following example, a list of key-value pairs with four keys ("aString", "aNumber", "anArray" and "anObject") is provided to illustrate that the values associated with different keys can be of different type. | object |

## error

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## Responses

| HTTP Code | Description   | Schema     |
|-----------|---|------------|
| 204       | <p>204 NO CONTENT The notification has been delivered successfully.</p> <p><b>Headers :</b></p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | No Content |

| HTTP Code | Description   | Schema                              |
|-----------|---|-------------------------------------|
| 400       | <p>400 BAD REQUEST 400 code can be returned in the following specified cases, the specific cause has to be proper specified in the "ProblemDetails" structure to be returned. If the request is malformed or syntactically incorrect (e.g. if the request URI contains incorrect query parameters or the payload body contains a syntactically incorrect data structure), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and should include in the "detail" attribute more information about the source of the problem. If the response to a GET request which queries a container resource would be so big that the performance of the API producer is adversely affected, and the API producer does not support paging for the affected resource, it shall respond with this response code. The "ProblemDetails" structure shall be provided, and should include in the "detail" attribute more information about the source of the problem. If there is an application error related to the client's input that cannot be easily mapped to any other HTTP response code ("catch all error"), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and shall include in the "detail" attribute more information about the source of the problem. If the request contains a malformed access token, the API producer should respond with this response. The details of the error shall be returned in the WWW Authenticate HTTP header, as defined in IETF RFC 6750 and IETF RFC 7235. The ProblemDetails structure may be provided. The use of this HTTP error response code described above is applicable to the use of the OAuth 2.0 for the authorization of API requests and notifications, as defined in clauses 4.5.3.3 and 4.5.3.4.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | <p><a href="#">Response 400</a></p> |

| HTTP Code | Description   | Schema                       |
|-----------|---|------------------------------|
| 401       | <p>401 UNAUTHORIZED If the request contains no access token even though one is required, or if the request contains an authorization token that is invalid (e.g. expired or revoked), the API producer should respond with this response. The details of the error shall be returned in the WWW-Authenticate HTTP header, as defined in IETF RFC 6750 and IETF RFC 7235. The ProblemDetails structure may be provided.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | <a href="#">Response 401</a> |
| 403       | <p>403 FORBIDDEN If the API consumer is not allowed to perform a particular request to a particular resource, the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided. It should include in the "detail" attribute information about the source of the problem, and may indicate how to solve it.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>   | <a href="#">Response 403</a> |

| HTTP Code | Description  | Schema                       |
|-----------|--|------------------------------|
| 404       | <p>404 NOT FOUND If the API producer did not find a current representation for the resource addressed by the URI passed in the request or is not willing to disclose that one exists, it shall respond with this response code. The "ProblemDetails" structure may be provided, including in the "detail" attribute information about the source of the problem, e.g. a wrong resource URI variable. This response code is not appropriate in case the resource addressed by the URI is a container resource which is designed to contain child resources, but does not contain any child resource at the time the request is received. For a GET request to an existing empty container resource, a typical response contains a 200 OK response code and a payload body with an empty array.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | <a href="#">Response 404</a> |
| 405       | <p>405 METHOD NOT ALLOWED If a particular HTTP method is not supported for a particular resource, the API producer shall respond with this response code. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>  | <a href="#">Response 405</a> |
| 406       | <p>406 NOT ACCEPTABLE If the "Accept" HTTP header does not contain at least one name of a content type that is acceptable to the API producer, the API producer shall respond with this response code. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>   | <a href="#">Response 406</a> |



| HTTP Code | Description  | Schema       |
|-----------|--|--------------|
| 500       | <p>500 INTERNAL SERVER ERROR If there is an application error not related to the client's input that cannot be easily mapped to any other HTTP response code ("catch all error"), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and shall include in the "detail" attribute more information about the source of the problem.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | Response 500 |
| 503       | <p>503 SERVICE UNAVAILABLE If the API producer encounters an internal overload situation of itself or of a system it relies on, it should respond with this response code, following the provisions in IETF RFC 7231 for the use of the "Retry-After" HTTP header and for the alternative to refuse the connection. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>                        | Response 503 |

## Response 400

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem. | integer      |

| Name                            | Description   | Schema       |
|---------------------------------|---|--------------|
| <b>title</b><br><i>optional</i> | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>  | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

#### Response 401

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |

| Name                           | Description  | Schema       |
|--------------------------------|--|--------------|
| <b>type</b><br><i>optional</i> | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank". | string (URI) |

#### Response 403

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

#### Response 404

| Name                             | Description  | Schema |
|----------------------------------|--|--------|
| <b>detail</b><br><i>required</i> | A human-readable explanation specific to this occurrence of the problem. | string |

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## Response 405

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem. | integer      |

| Name                            | Description   | Schema       |
|---------------------------------|---|--------------|
| <b>title</b><br><i>optional</i> | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>  | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

#### Response 406

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |

| Name                           | Description  | Schema       |
|--------------------------------|--|--------------|
| <b>type</b><br><i>optional</i> | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank". | string (URI) |

## Response 500

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## Response 503

| Name                             | Description  | Schema |
|----------------------------------|--|--------|
| <b>detail</b><br><i>required</i> | A human-readable explanation specific to this occurrence of the problem. | string |

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## GET /URI-is-provided-by-the-client-when-creating-the-subscription\_VnflcmOperationOccurrenceNotification

### Description

The GET method allows the server to test the notification endpoint that is provided by the API consumer, e.g. during subscription.

### Parameters

| Type          | Name                                    | Description  | Schema |
|---------------|---|--|--------|
| <b>Header</b> | <b>Authorization</b><br><i>optional</i> | The authorization token for the request. Reference: IETF RFC 7235    | string |
| <b>Header</b> | <b>Version</b><br><i>required</i>       | Version of the API requested to use when responding to this request. | string |

## Responses

| HTTP Code | Description   | Schema     |
|-----------|---|------------|
| 204       | <p>204 NO CONTENT The notification endpoint has been tested successfully.</p> <p><b>Headers :</b></p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | No Content |



| HTTP Code | Description   | Schema       |
|-----------|---|--------------|
| 400       | <p>400 BAD REQUEST 400 code can be returned in the following specified cases, the specific cause has to be properly specified in the "ProblemDetails" structure to be returned. If the request is malformed or syntactically incorrect (e.g. if the request URI contains incorrect query parameters or the payload body contains a syntactically incorrect data structure), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and should include in the "detail" attribute more information about the source of the problem. If the response to a GET request which queries a container resource would be so big that the performance of the API producer is adversely affected, and the API producer does not support paging for the affected resource, it shall respond with this response code. The "ProblemDetails" structure shall be provided, and should include in the "detail" attribute more information about the source of the problem. If there is an application error related to the client's input that cannot be easily mapped to any other HTTP response code ("catch all error"), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and shall include in the "detail" attribute more information about the source of the problem. If the request contains a malformed access token, the API producer should respond with this response. The details of the error shall be returned in the WWW Authenticate HTTP header, as defined in IETF RFC 6750 and IETF RFC 7235. The ProblemDetails structure may be provided. The use of this HTTP error response code described above is applicable to the use of the OAuth 2.0 for the authorization of API requests and notifications, as defined in clauses 4.5.3.3 and 4.5.3.4.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | Response 400 |

| HTTP Code | Description   | Schema                       |
|-----------|---|------------------------------|
| 401       | <p>401 UNAUTHORIZED If the request contains no access token even though one is required, or if the request contains an authorization token that is invalid (e.g. expired or revoked), the API producer should respond with this response. The details of the error shall be returned in the WWW-Authenticate HTTP header, as defined in IETF RFC 6750 and IETF RFC 7235. The ProblemDetails structure may be provided.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | <a href="#">Response 401</a> |
| 403       | <p>403 FORBIDDEN If the API consumer is not allowed to perform a particular request to a particular resource, the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided. It should include in the "detail" attribute information about the source of the problem, and may indicate how to solve it.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>   | <a href="#">Response 403</a> |
| 405       | <p>405 METHOD NOT ALLOWED If a particular HTTP method is not supported for a particular resource, the API producer shall respond with this response code. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>   | <a href="#">Response 405</a> |

| HTTP Code | Description  | Schema                       |
|-----------|--|------------------------------|
| 406       | <p>406 NOT ACCEPTABLE If the "Accept" HTTP header does not contain at least one name of a content type that is acceptable to the API producer, the API producer shall respond with this response code. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>   | <a href="#">Response 406</a> |
| 500       | <p>500 INTERNAL SERVER ERROR If there is an application error not related to the client's input that cannot be easily mapped to any other HTTP response code ("catch all error"), the API producer shall respond with this response code. The "ProblemDetails" structure shall be provided, and shall include in the "detail" attribute more information about the source of the problem.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p> | <a href="#">Response 500</a> |
| 503       | <p>503 SERVICE UNAVAILABLE If the API producer encounters an internal overload situation of itself or of a system it relies on, it should respond with this response code, following the provisions in IETF RFC 7231 for the use of the "Retry-After" HTTP header and for the alternative to refuse the connection. The "ProblemDetails" structure may be omitted.</p> <p><b>Headers :</b></p> <p><b>Content-Type</b> (string) : The MIME type of the body of the response.</p> <p><b>WWW-Authenticate</b> (string) : Challenge if the corresponding HTTP request has not provided authorization, or error details if the corresponding HTTP request has provided an invalid authorization token.</p> <p><b>Version</b> (string) : Version of the API used in the response.</p>                        | <a href="#">Response 503</a> |

## Response 400

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## Response 401

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem. | integer      |

| Name                            | Description   | Schema       |
|---------------------------------|---|--------------|
| <b>title</b><br><i>optional</i> | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>  | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

### Response 403

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |

| Name                           | Description  | Schema       |
|--------------------------------|--|--------------|
| <b>type</b><br><i>optional</i> | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank". | string (URI) |

#### Response 405

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

#### Response 406

| Name                             | Description  | Schema |
|----------------------------------|--|--------|
| <b>detail</b><br><i>required</i> | A human-readable explanation specific to this occurrence of the problem. | string |

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>     | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

## Response 500

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem. | integer      |

| Name                            | Description   | Schema       |
|---------------------------------|---|--------------|
| <b>title</b><br><i>optional</i> | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |
| <b>type</b><br><i>optional</i>  | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank".  | string (URI) |

### Response 503

| Name                               | Description   | Schema       |
|------------------------------------|---|--------------|
| <b>detail</b><br><i>required</i>   | A human-readable explanation specific to this occurrence of the problem.  | string       |
| <b>instance</b><br><i>optional</i> | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.   | string (URI) |
| <b>status</b><br><i>required</i>   | The HTTP status code for this occurrence of the problem. The HTTP status code ([RFC7231], Section 6) generated by the origin server for this occurrence of the problem.   | integer      |
| <b>title</b><br><i>optional</i>    | A short, human-readable summary of the problem type. It should not change from occurrence to occurrence of the problem, except for purposes of localization. If type is given and other than "about:blank", this attribute shall also be provided. A short, human-readable summary of the problem type. It SHOULD NOT change from occurrence to occurrence of the problem, except for purposes of localization (e.g., using proactive content negotiation; see [RFC7231], Section 3.4). | string       |



| Name                           | Description  | Schema       |
|--------------------------------|--|--------------|
| <b>type</b><br><i>optional</i> | A URI reference according to IETF RFC 3986 [5] that identifies the problem type. It is encouraged that the URI provides human-readable documentation for the problem (e.g. using HTML) when dereferenced. When this member is not present, its value is assumed to be "about:blank". | string (URI) |