SOL002 - VNF Indicator Notification Endpoint interface

Overview

VNF Indicator Notification Endpoint interface of ETSI NFV SOL002

IMPORTANT

Please note that this file might be not aligned to the current version of the ETSI Group Specification it refers to. 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&list_id=61&product=NFV&resolution=---

Version information

Version: 1.1.0

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 V2.4.1

URL: http://www.etsi.org/deliver/etsi_gs/NFV-SOL/001_099/002/02.04.01_60/gs_NFV-

SOL002v020401p.pdf

Paths

Notification endpoint

POST /notificationendpoint

Description

The API producer can use this resource to send notifications related to VNF indicator value changes to a subscribed API consumer, which has provided the URI of this resource during the subscription process. The POST method delivers a notification from the server to the client.

Parameters

Туре	Name	Description	Schema
Body	vnfIndicatorV alueChangeNo tification required	A notification about VNF indicator value changes.	vnfIndicatorValueCh angeNotification

vnfIndicatorValueChangeNotification

Name	Description	Schema
_links required	Links to resources related to this resource.	_links
id required	An identifier with the intention of being globally unique.	string
name optional	Human readable name of the VNF indicator. Shall be present if defined in the VNFD.	string
notificationTy pe required	Discriminator for the different notification types. Shall be set to "VnfIndicatorValueChangeNotification" for this notification type.	string
subscriptionI d required	An identifier with the intention of being globally unique.	string
timeStamp required	Date-time stamp. Representation: String formatted according to IETF RFC 3339.	string (date-time)

Name	Description	Schema
value required	Provides the value of the VNF indicator. The value format is defined in the VNFD.	object
vnfIndicatorI d required	An identifier that is unique within a VNF descriptor.	string
vnfInstanceId required	An identifier with the intention of being globally unique.	string

_links

Name	Description	Schema
subscription required	This type represents a link to a resource.	subscription
vnfInstance required	This type represents a link to a resource.	vnfInstance

subscription

Name	Description	Schema
href required	URI of the referenced resource.	string (url)

vnfInstance

Name	Description	Schema
href required	URI of the referenced resource.	string (url)

HTTP Code	Description	Schema
204	The notification was delivered successfully. The response body shall be empty.	No Content

HTTP Code	Description	Schema
400	Bad Request If the request is malformed or syntactically incorrect (e.g. if the request URI contains incorrect query parameters or a syntactically incorrect payload body), 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 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. — 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. Headers: Content-Type (string): The MIME type of the body of the response. WWW-Authenticate (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.	Response 400
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. Headers: Content-Type (string): The MIME type of the body of the response. WWW-Authenticate (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.	Response 401

HTTP Code	Description	Schema
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. Headers: Content-Type (string): The MIME type of the body of the response.	Response 403
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. Headers: Content-Type (string): The MIME type of the body of the response.	Response 404
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 in that case. Headers: Content-Type (string): The MIME type of the body of the response.	Response 405
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 in that case. Headers: Content-Type (string): The MIME type of the body of the response.	Response 406
409	Conflict Another request is in progress that prohibits the fulfilment of the current request, or the current resource state is inconsistent with the request. Headers: Content-Type (string): The MIME type of the body of the response.	Response 409
416	Requested Range Not Satisfiable This code is returned if the requested byte range in the Range HTTP header is not present in the requested resource. Headers: Content-Type (string): The MIME type of the body of the response.	Response 416

HTTP Code	Description	Schema
422	Unprocessable Entity If the payload body of a request contains syntactically correct data (e.g. well-formed JSON) but the data cannot be processed (e.g. because it fails validation against a schema), 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. NOTE 2: This error response code is only applicable for methods that have a request body. Headers: Content-Type (string): The MIME type of the body of the response.	Response 422
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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 [13] for the use of the "Retry-After" HTTP header and for the alternative to refuse the connection. The "ProblemDetails" structure may be omitted. Headers: Content-Type (string): The MIME type of the body of the response.	Response 503

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detail required	A human-readable explanation specific to this occurrence of the problem.	string
instance optional	A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced.	
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Test notification endpoint.

GET /notificationendpoint

Description

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

HTTP Code	Description	Schema
204	No Content The notification endpoint was tested successfully. The response body shall be empty.	No Content
400	Bad Request If the request is malformed or syntactically incorrect (e.g. if the request URI contains incorrect query parameters or a syntactically incorrect payload body), 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 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. —	
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	Content-Type (string): The MIME type of the body of the response. WWW-Authenticate (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.	

HTTP Code	Description	Schema
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. Headers: Content-Type (string): The MIME type of the body of the response. WW-Authenticate (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.	Response 401
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. Headers: Content-Type (string): The MIME type of the body of the response.	Response 403
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. Headers: Content-Type (string): The MIME type of the body of the response.	Response 404
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 in that case. Headers: Content-Type (string): The MIME type of the body of the response.	Response 405

HTTP Code	Description	Schema
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 in that case. Headers: Content-Type (string): The MIME type of the body of the response.	Response 406
409	Conflict Another request is in progress that prohibits the fulfilment of the current request, or the current resource state is inconsistent with the request. Headers: Content-Type (string): The MIME type of the body of the response.	Response 409
416	Requested Range Not Satisfiable This code is returned if the requested byte range in the Range HTTP header is not present in the requested resource. Headers: Content-Type (string): The MIME type of the body of the response.	Response 416
422	Unprocessable Entity If the payload body of a request contains syntactically correct data (e.g. well-formed JSON) but the data cannot be processed (e.g. because it fails validation against a schema), 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. NOTE 2: This error response code is only applicable for methods that have a request body. Headers: Content-Type (string): The MIME type of the body of the response.	Response 422
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 withthis response code. The "ProblemDetails" structure shall be provided, and shall include in the "detail" attribute more information about the source of the problem. Headers: Content-Type (string): The MIME type of the body of the response.	Response 500

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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 [13] for the use of the "Retry-After" HTTP header and for the alternative to refuse the connection. The "ProblemDetails" structure may be omitted. Headers: Content-Type (string): The MIME type of the body of the response.	Response 503

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status required	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

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type optional	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)

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