SOL005 - NS Fault Management Notification interface

Overview

SOL005 - NS Fault 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. 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 : 1.2.0-impl:etsi.org:ETSI_NFV_OpenAPI:1

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 005 V2.7.1URL:https://www.etsi.org/deliver/etsi_gs/NFV-SOL/001_099/005/02.06.01_60/gs_NFV-SOL005v020701p.pdf

Paths

Notify about NS alarms

POST /URI_is_provided_by_the_client_when_creating_the_subscription-AlarmClearedNotification

Description

The POST method notifies an alarm related to a NS or that the alarm list has been rebuilt.

Parameters

| Туре | Name | Description | Schema |
|--------|--|--|------------------------------|
| Header | Accept required | Content-Types that are acceptable for the response. Reference: IETF RFC 7231 | string |
| Header | Authorization optional | The authorization token for the request. Reference: IETF RFC 7235 | string |
| Header | Content-Type required | The MIME type of the body of the request. Reference: IETF RFC 7231 | string |
| Header | Version required | Version of the API requested to use when responding to this request. | string |
| Body | alarmCleared Notification required | Information of the clearance of an NS alarm. | alarmClearedNotific ation |

alarmClearedNotification

| Name | Description | Schema |
|----------------------------------|---|--|
| _ links required | Links to resources related to this notification. | _links |
| alarmId required | An identifier with the intention of being globally unique. | string |
| id required | An identifier with the intention of being globally unique. | string |
| notificationTy pe required | Discriminator for the different notification types. Shall be set to "AlarmClearedNotification" for this notification type. | enum (AlarmClearedNotifi cation) |

| Name | Description | Schema |
|--------------------------------|--|--------|
| subscriptionI d required | An identifier with the intention of being globally unique. | string |

_links

| Name | Description | Schema |
|---------------------------------|---|--------------|
| alarm required | This type represents a link to a resource in a notification, using an absolute or relative URI. | alarm |
| subscription required | This type represents a link to a resource in a notification, using an absolute or relative URI. | subscription |

alarm

| Name | Description | Schema |
|-------------------------|--|--------------|
| href required | URI of a resource referenced from a notification. Should be an absolute URI (i.e. a URI that contains {apiRoot}), however, may be a relative URI (i.e. a URI where the {apiRoot} part is omitted) if the {apiRoot} information is not available. | string (url) |

subscription

| Name | Description | Schema |
|-------------------------|--|--------------|
| href required | URI of a resource referenced from a notification. Should be an absolute URI (i.e. a URI that contains {apiRoot}), however, may be a relative URI (i.e. a URI where the {apiRoot} part is omitted) if the {apiRoot} information is not available. | string (url) |

| HTTP Code | Description | Schema |
|--------------|--|--------------|
| 204 | 204 No Content The notification was delivered successfully. The response body shall be empty. Headers : 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. Version (string) : Version of the API used in the response. | No Content |
| 400 | 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 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. 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. Version (string) : Version of the API used in the re | Response 400 |

| HTTP Code | Description | Schema |
|--------------|--|--------------|
| 401 | 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. Version (string) : Version of the API used in the response. | Response 401 |
| 403 | 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. 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. Version (string) : Version of the API used in the response. | Response 403 |
| 500 | 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. 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. Version (string) : Version of the API used in the response. | Response 500 |

| HTTP Code | Description | Schema |
|--------------|--|--------------|
| 503 | 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. 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. Version (string) : Version of the API used in the response. | Response 503 |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |
| title optional | 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 |
|-------------------------|--|--------------|
| 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) |

| Name | Description | Schema |
|-----------------------------|---|--------------|
| 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. | |
| 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 |
| title optional | 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). | |
| 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) |

| Name | Description | Schema |
|---------------------------|--|--------|
| detail required | A human-readable explanation specific to this occurrence of the problem. | string |

| Name | Description | Schema |
|-----------------------------|---|--------------|
| instance optional | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced. | |
| 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. | |
| title optional | 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 |
| 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) |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |

| Name | Description | Schema |
|--------------------------|---|--------------|
| title optional | 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 |
| 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) |

| Name | Description | Schema |
|-----------------------------|---|----------|
| 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. | |
| 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 |
| title optional | 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). | <u> </u> |

| Name | Description | Schema |
|-------------------------|--|--------------|
| 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) |

Test the notification endpoint.

GET /URI_is_provided_by_the_client_when_creating_the_subscription-AlarmClearedNotification

Description

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

Parameters

| Туре | Name | Description | Schema |
|--------|----------------------------|--|--------|
| Header | Accept required | Content-Types that are acceptable for the response. Reference: IETF RFC 7231 | string |
| Header | Authorization optional | The authorization token for the request. Reference: IETF RFC 7235 | string |
| Header | Version required | Version of the API requested to use when responding to this request. | string |

| HTTP Code | Description | Schema |
|--------------|--|--------|
| 204 | 204 No Content Shall be returned when the notification endpoint has been tested successfully. The response body shall be empty. Headers : 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. Version (string) : Version of the API used in the response. | |

| HTTP Code | Description | Schema |
|--------------|--|--------|
| 400 | 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 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 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 i | |

| HTTP Code | Description | Schema |
|--------------|--|--------------|
| 401 | 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. Version (string) : Version of the API used in the response. | Response 401 |
| 403 | 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. 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. Version (string) : Version of the API used in the response. | Response 403 |

| HTTP Code | Description | Schema |
|--------------|---|--------------|
| 404 | 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. 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. Version (string) : Version of the API used in the response. | Response 404 |
| 405 | 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. 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. Version (string) : Version of the API used in the response. | Response 405 |
| 406 | 406 NOT ACCEPTABLE If the "Accept" 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. 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. Version (string) : Version of the API used in the response. | Response 406 |

| HTTP Code | Description | Schema |
|--------------|--|--------------|
| 500 | 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. 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. Version (string) : Version of the API used in the response. | Response 500 |
| 503 | 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. 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. Version (string) : Version of the API used in the response. | Response 503 |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |

| Name | Description | Schema |
|--------------------------|---|--------------|
| title optional | 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 |
| 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) |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |
| title optional | 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). | |

| Name | Description | Schema |
|-------------------------|--|--------------|
| 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) |

| Name | Description | Schema |
|-----------------------------|---|--------|
| detail required | A human-readable explanation specific to this occurrence of the problem. | string |
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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". | |

| Name | Description | Schema |
|---------------------------|--|--------|
| detail required | A human-readable explanation specific to this occurrence of the problem. | string |

| Name | Description | Schema |
|-----------------------------|---|--------------|
| instance optional | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced. | |
| 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 |
| title optional | 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 |
| 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) |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |

| Name | Description | Schema |
|--------------------------|---|--------------|
| title optional | 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 |
| 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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|-----------------------------|---|---------|
| 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. | |
| 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 |
| title optional | 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). | |

| Name | Description | Schema |
|-------------------------|--|--------------|
| 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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| detail required | A human-readable explanation specific to this occurrence of the problem. | string |
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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". | |

| Name | Description | Schema |
|---------------------------|--|--------|
| detail required | A human-readable explanation specific to this occurrence of the problem. | string |

| Name | Description | Schema |
|-----------------------------|---|--------------|
| instance optional | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced. | |
| 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. | |
| title optional | 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 |
| 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) |

Notify about NS alarms

```
POST /URI_is_provided_by_the_client_when_creating_the_subscription-
AlarmListRebuiltNotification
```

Description

The POST method notifies an alarm related to a NS or that the alarm list has been rebuilt.

Parameters

| Туре | Name | Description | Schema |
|--------|---------------------------|--|--------|
| Header | Accept required | Content-Types that are acceptable for the response. Reference: IETF RFC 7231 | string |
| Header | Authorization optional | The authorization token for the request. Reference: IETF RFC 7235 | string |

| Туре | Name | Description | Schema |
|--------|--|---|----------------------------------|
| Header | Content-Type required | The MIME type of the body of the request. Reference: IETF RFC 7231 | string |
| Header | Version required | Version of the API requested to use when responding to this request. | string |
| Body | AlarmListReb uiltNotificatio n required | Information that the alarm list has been rebuilt by the NFVO. | AlarmListRebuiltNot ification |

AlarmListRebuiltNotification

| Name | Description | Schema |
|----------------------------------|--|--------|
| _ links required | Links to resources related to this notification. | _links |
| id required | An identifier with the intention of being globally unique. | string |
| notificationTy pe required | Discriminator for the different notification types. Shall be set to "AlarmListRebuiltNotification" for this notification type. | |
| subscriptionI d required | An identifier with the intention of being globally unique. | string |

_links

| Name | Description | Schema |
|---------------------------------|---|--------------|
| alarms required | This type represents a link to a resource in a notification, using an absolute or relative URI. | alarms |
| subscription required | This type represents a link to a resource in a notification, using an absolute or relative URI. | subscription |

alarms

| Name | Description | Schema |
|-------------------------|--|--------------|
| href required | URI of a resource referenced from a notification. Should be an absolute URI (i.e. a URI that contains {apiRoot}), however, may be a relative URI (i.e. a URI where the {apiRoot} part is omitted) if the {apiRoot} information is not available. | string (url) |

subscription

| Name | Description | Schema |
|-------------------------|--|--------------|
| href required | URI of a resource referenced from a notification. Should be an absolute URI (i.e. a URI that contains {apiRoot}), however, may be a relative URI (i.e. a URI where the {apiRoot} part is omitted) if the {apiRoot} information is not available. | string (url) |

| HTTP Code | Description | Schema |
|--------------|--|------------|
| 204 | 204 No Content The notification was delivered successfully. The response body shall be empty. Headers : 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. Version (string) : Version of the API used in the response. | No Content |

| HTTP Code | Description | Schema |
|--------------|--|--------|
| 400 | 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 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 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 i | |

| HTTP Code | Description | Schema |
|--------------|--|--------------|
| 401 | 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. Version (string) : Version of the API used in the response. | Response 401 |
| 403 | 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. 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. Version (string): Version of the API used in the response. | Response 403 |
| 500 | 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. 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. Version (string) : Version of the API used in the response. | |

| HTTP Code | Description | Schema |
|--------------|---|--------|
| 503 | 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. 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. Version (string) : Version of the API used in the response. | |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |
| title optional | 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 |
|-------------------------|--|--------------|
| 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) |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |
| title optional | 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). | |
| 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". | |

| Name | Description | Schema |
|---------------------------|--|--------|
| detail required | A human-readable explanation specific to this occurrence of the problem. | string |

| Name | Description | Schema |
|-----------------------------|---|--------------|
| instance optional | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced. | |
| 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 |
| title optional | 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 |
| 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) |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |

| Name | Description | Schema |
|--------------------------|---|--------------|
| title optional | 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 |
| 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) |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |
| title optional | 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). | |

| Name | Description | Schema |
|-------------------------|--|--------------|
| 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) |

Test the notification endpoint.

GET /URI_is_provided_by_the_client_when_creating_the_subscription-AlarmListRebuiltNotification

Description

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

Parameters

| Туре | Name | Description | Schema |
|--------|----------------------------|--|--------|
| Header | Accept required | Content-Types that are acceptable for the response. Reference: IETF RFC 7231 | string |
| Header | Authorization optional | The authorization token for the request. Reference: IETF RFC 7235 | string |
| Header | Version required | Version of the API requested to use when responding to this request. | string |

| HTTP Code | Description | Schema |
|--------------|---|------------|
| 204 | 204 No Content Shall be returned when the notification endpoint has been tested successfully. The response body shall be empty. Headers : 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. Version (string) : Version of the API used in the response. | No Content |

| HTTP Code | Description | Schema |
|--------------|---|--------------|
| 400 | 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 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. 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. 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 400 |

| HTTP Code | Description | Schema |
|--------------|---|--------------|
| 401 | 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. Version (string) : Version of the API used in the response. | Response 401 |
| 403 | 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. 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. Version (string) : Version of the API used in the response. | Response 403 |

| HTTP Code | Description | Schema |
|--------------|--|--------------|
| 404 | 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. 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. Version (string) : Version of the API used in the response. | |
| 405 | 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. 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. Version (string) : Version of the API used in the response. | Response 405 |
| 406 | 406 NOT ACCEPTABLE If the "Accept" 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. 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. Version (string) : Version of the API used in the response. | |

| HTTP Code | Description | Schema |
|--------------|--|--------------|
| 500 | 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. 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. Version (string) : Version of the API used in the response. | Response 500 |
| 503 | 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. 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. Version (string) : Version of the API used in the response. | Response 503 |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |

| Name | Description | Schema |
|--------------------------|---|--------------|
| title optional | 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 |
| 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) |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |
| title optional | 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 |
|-------------------------|--|--------------|
| 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) |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |
| title optional | 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). | |
| 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". | |

| Name | Description | Schema |
|---------------------------|--|--------|
| detail required | A human-readable explanation specific to this occurrence of the problem. | string |

| Name | Description | Schema |
|-----------------------------|---|--------------|
| instance optional | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced. | |
| 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 |
| title optional | 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). | |
| 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) |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |

| Name | Description | Schema |
|--------------------------|---|--------------|
| title optional | 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 |
| 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) |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |
| title optional | 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). | |

| Name | Description | Schema |
|-------------------------|--|--------------|
| 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) |

| Name | Description | Schema |
|-----------------------------|---|--------------|
| 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. | |
| 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 |
| title optional | 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). | |
| 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) |

| Name | Description | Schema |
|---------------------------|--|--------|
| detail required | A human-readable explanation specific to this occurrence of the problem. | string |

| Name | Description | Schema |
|-----------------------------|---|--------------|
| instance optional | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced. | |
| 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 |
| title optional | 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 |
| 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) |

Notify about NS alarms

POST /URI_is_provided_by_the_client_when_creating_the_subscription-AlarmNotification

Description

The POST method notifies an alarm related to a NS or that the alarm list has been rebuilt. The API consumer shall have previously created an "individual subscription resource" with a matching filter.

Parameters

| Туре | Name | Description | Schema |
|--------|---------------------------|--|--------|
| Header | Accept required | Content-Types that are acceptable for the response. Reference: IETF RFC 7231 | string |
| Header | Authorization optional | The authorization token for the request. Reference: IETF RFC 7235 | string |

| Туре | Name | Description | Schema |
|--------|---|---|-------------------|
| Header | Content-Type required | The MIME type of the body of the request. Reference: IETF RFC 7231 | string |
| Header | Version required | Version of the API requested to use when responding to this request. | string |
| Body | alarmNotifica tion required | Information of an NS alarm. | alarmNotification |

alarmNotification

| Name | Description | Schema |
|----------------------------------|---|--|
| _ links required | Links to resources related to this notification. | _links |
| alarm required | The alarm data type encapsulates information about an alarm. It shall comply with the provisions defined in Table 8.5.2.4-1 | alarm |
| id required | An identifier with the intention of being globally unique. | string |
| notificationTy pe required | Discriminator for the different notification types. Shall be set to "AlarmNotification" for this notification type. | enum (AlarmClearedNotifi cation) |
| subscriptionI d 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 in a notification, using an absolute or relative URI. | subscription |

subscription

| Name | Description | Schema |
|-------------------------|--|--------------|
| href required | URI of a resource referenced from a notification. Should be an absolute URI (i.e. a URI that contains {apiRoot}), however, may be a relative URI (i.e. a URI where the {apiRoot} part is omitted) if the {apiRoot} information is not available. | string (url) |

alarm

| Name | Description | Schema |
|---|---|---|
| _ links required | Links for this resource. | _links |
| ackState required | Acknowledgment state of the alarm. Permitted values: UNACKNOWLEDGED ACKNOWLEDGED | enum (UNACKNOWLEDGE D, ACKNOWLEDGED) |
| correlatedAla rmIds <i>optional</i> | List of identifiers of other alarms correlated to this fault. | < string > array |
| eventType required | The enumeration EventType represents those types of events that trigger an alarm COMMUNICATIONS_ALARM: An alarm of this type is associated with the procedure and/or process required conveying information from one point to another (ITU-T Recommendation X.733) PROCESSING_ERROR_ALARM: An alarm of this type is associated with a software or processing fault (ITU-T Recommendation X.733) ENVIRONMENTAL_ALARM: An alarm of this type is associated with a condition related to an enclosure in which the equipment resides (ITU-T Recommendation X.733) QOS_ALARM: An alarm of this type is associated with degradation in the quality of a service (ITU-T Recommendation X.733) EQUIPMENT_ALARM: An alarm of this type is associated with an equipment fault (ITU-T Recommendation X.733). | enum (COMMUNICATIONS _ALARM, PROCESSING_ERROR _ALARM, ENVIRONMENTAL_ ALARM, QOS_ALARM, EQUIPMENT_ALAR M) |
| faultDetails optional | Provides additional information about the fault | < string > array |
| faultType optional | Additional information to clarify the type of the fault. | string |

| Name | Description | Schema |
|-----------------------------------|--|---|
| id required | An identifier with the intention of being globally unique. | string |
| isRootCause required | Attribute indicating if this fault is the root for other correlated alarms. If TRUE, then the alarms listed in the attribute CorrelatedAlarmId are caused by this fault. | boolean |
| managedObje ctId required | An identifier with the intention of being globally unique. | string |
| perceivedSeve rity required | Indicates the relative level of urgency for operator attention. * CRITICAL: The Critical severity level indicates that a service affecting condition has occurred and an immediate corrective action is required. Such a severity can be reported, for example, when a managed object becomes totally out of service and its capability needs to be restored (ITU-T Recommendation X.733). * MAJOR: The Major severity level indicates that a service affecting condition has developed and an urgent corrective action is required. Such a severity can be reported, for example, when there is a severe degradation in the capability of the managed object and its full capability needs to be restored (ITU-T Recommendation X.733). * MINOR: The Minor severity level indicates the existence of a non-service affecting fault condition and that corrective action should be taken in order to prevent a more serious (for example, service affecting) fault. Such a severity can be reported, for example, when the detected alarm condition is not currently degrading the capacity of the managed object (ITU-T Recommendation X.733). * WARNING: The Warning severity level indicates the detection of a potential or impending service affecting fault, before any significant effects have been felt. Action should be taken to further diagnose (if necessary) and correct the problem in order to prevent it from becoming a more serious service affecting fault (ITU-T Recommendation X.733). * INDETERMINATE: The Indeterminate severity level indicates that the severity level cannot be determined (ITU-T Recommendation X.733). * CLEARED: The Cleared severity level indicates the clearing of one or more previously reported alarms. This alarm clears all alarms for this managed object that have the same Alarm type, Probable cause and Specific problems (if given) (ITU-T Recommendation X.733). | MAJOR, MINOR, WARNING, INDETERMINATE, |

| Name | Description | Schema |
|---|--|------------------------------|
| probableCaus e required | Information about the probable cause of the fault. | string |
| | This type represents the faulty component that has a negative impact on an NS. It shall comply with the provisions defined in Table 8.5.3.4-1. | rootCauseFaultyCom ponent |
| rootCauseFau ltyResource optional | This type represents the faulty virtual resources that have a negative impact on a NS. | rootCauseFaultyRes ource |

_links

| Name | Description | Schema |
|-------------------------|--|--------|
| self required | This type represents a link to a resource. | self |

self

| Name | Description | Schema |
|-------------------------|--|--------------|
| href required | URI of a resource referenced from a notification. Should be an absolute URI (i.e. a URI that contains {apiRoot}), however, may be a relative URI (i.e. a URI where the {apiRoot} part is omitted) if the {apiRoot} information is not available. | string (url) |

rootCauseFaultyComponent

| Name | Description | Schema |
|---|--|--------|
| faultyNestedN sInstanceId optional | An identifier with the intention of being globally unique. | string |
| faultyNsVirtu alLinkInstanc eId optional | An identifier with the intention of being globally unique. | string |

| Name | Description | Schema |
|--|--|--------|
| faultyResourc eType optional | An identifier with the intention of being globally unique. | string |

rootCauseFaultyResource

| Name | Description | Schema |
|--|---|--|
| faultyResourc e required | This type represents the information that allows addressing a virtualised resource that is used by a VNF instance or by an NS instance. Information about the resource is available from the VIM. | faultyResource |
| faultyResourc eType required | The enumeration FaultyResourceType represents those types of faulty resource. Acceptable values are: - COMPUTE - Virtual compute resource STORAGE - Virtual storage resource NETWORK - Virtual network resource. | enum (COMPUTE, STORAGE, NETWORK) |

faultyResource

| Name | Description | Schema |
|--|--|--------|
| resourceId required | An identifier maintained by the VIM or other resource provider. It is expected to be unique within the VIM instance. Representation: string of variable length. | string |
| resourceProvi derId optional | An identifier with the intention of being globally unique. | string |
| vimId optional | An identifier with the intention of being globally unique. | string |
| vimLevelReso urceType optional | Type of the resource in the scope of the VIM or the resource provider. 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. | string |

| HTTP Code | Description | Schema |
|--------------|--|--------------|
| 204 | 204 No Content Shall be returned when the notification has been delivered successfully. The response body shall be empty. Headers : 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. Version (string) : Version of the API used in the response. | No Content |
| 400 | 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 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. 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. Version (string) : Version of the API used in the re | Response 400 |

| HTTP Code | Description | Schema |
|--------------|--|--------------|
| 401 | 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. Version (string) : Version of the API used in the response. | Response 401 |
| 403 | 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. 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. Version (string): Version of the API used in the response. | Response 403 |
| 500 | 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. 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. Version (string) : Version of the API used in the response. | |

| HTTP Code | Description | Schema |
|--------------|---|--------|
| 503 | 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. 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. Version (string) : Version of the API used in the response. | |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |
| title optional | 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 |
|-------------------------|--|--------------|
| 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) |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |
| title optional | 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). | |
| 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". | |

| Name | Description | Schema |
|---------------------------|--|--------|
| detail required | A human-readable explanation specific to this occurrence of the problem. | string |

| Name | Description | Schema |
|-----------------------------|---|--------------|
| instance optional | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced. | |
| 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 |
| title optional | 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 |
| 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) |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |

| Name | Description | Schema |
|--------------------------|---|--------------|
| title optional | 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 |
| 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) |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |
| title optional | 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). | |

| Name | Description | Schema |
|-------------------------|--|--------------|
| 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) |

Test the notification endpoint.

GET /URI_is_provided_by_the_client_when_creating_the_subscription-AlarmNotification

Description

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

Parameters

| Туре | Name | Description | Schema |
|--------|----------------------------|--|--------|
| Header | Accept required | Content-Types that are acceptable for the response. Reference: IETF RFC 7231 | string |
| Header | Authorization optional | The authorization token for the request. Reference: IETF RFC 7235 | string |
| Header | Version required | Version of the API requested to use when responding to this request. | string |

| HTTP Code | Description | Schema |
|--------------|---|------------|
| 204 | 204 No Content Shall be returned when the notification endpoint has been tested successfully. The response body shall be empty. Headers : 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. Version (string) : Version of the API used in the response. | No Content |

| HTTP Code | Description | Schema |
|--------------|--|--------------|
| 400 | 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 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. Headers : Content-Type (string) : The MIME type of the body of the response. WWI-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. Version (string) : Version of the API used in the r | Response 400 |

| HTTP Code | Description | Schema |
|--------------|---|--------------|
| 401 | 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. Version (string) : Version of the API used in the response. | Response 401 |
| 403 | 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. 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. Version (string) : Version of the API used in the response. | Response 403 |

| HTTP Code | Description | Schema |
|--------------|---|--------------|
| 404 | 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. 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. Version (string) : Version of the API used in the response. | Response 404 |
| 405 | 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. 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. Version (string) : Version of the API used in the response. | Response 405 |
| 406 | 406 NOT ACCEPTABLE If the "Accept" 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. 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. Version (string) : Version of the API used in the response. | Response 406 |

| HTTP Code | Description | Schema |
|--------------|--|--------------|
| 500 | 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. 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. Version (string) : Version of the API used in the response. | Response 500 |
| 503 | 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. 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. Version (string) : Version of the API used in the response. | Response 503 |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |

| Name | Description | Schema |
|--------------------------|---|--------------|
| title optional | 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 |
| 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) |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |
| title optional | 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). | |

| Name | Description | Schema |
|-------------------------|--|--------------|
| 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) |

| Name | Description | Schema |
|-----------------------------|---|--------|
| 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. | |
| 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. | |
| title optional | 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 |
| 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". | |

| Name | Description | Schema |
|---------------------------|--|--------|
| detail required | A human-readable explanation specific to this occurrence of the problem. | string |

| Name | Description | Schema |
|-----------------------------|---|--------------|
| instance optional | A URI reference that identifies the specific occurrence of the problem. It may yield further information if dereferenced. | |
| 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 |
| title optional | 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). | |
| 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) |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |

| Name | Description | Schema |
|--------------------------|---|--------------|
| title optional | 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 |
| 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) |

| Name | Description | Schema |
|-----------------------------|---|----------|
| 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. | |
| 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 |
| title optional | 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). | <u> </u> |

| Name | Description | Schema |
|-------------------------|--|--------|
| 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". | |

| Name | Description | Schema |
|-----------------------------|---|---------|
| 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. | |
| 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 |
| title optional | 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). | |
| 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". | |

| Name | Description | Schema |
|---------------------------|--|--------|
| detail required | A human-readable explanation specific to this occurrence of the problem. | string |

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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". | |