**3GPP TSG-SA5 Meeting #130e *S5-202231***

**e-meeting 20-28 April 2020**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v11.4* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **28.532** | **CR** | **0114** | **rev** | **-** | **Current version:** | **16.3.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network | **X** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Update URI for generic fault supervision management service | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI16 | | | | |  | ***Date:*** | | | 2020-04-02 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) Rel-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Some issues for the URI for generic fault supervision management service, for example, clause 12.2.1.3.2.1.2, the URI is described as follows: {DN\_prefix\_authority\_part} / {DN\_prefix\_remainder}/FaultMnS/v1500/alarms, and the definiation for DN\_prefix\_authority\_part and DN\_prefix\_remainder refers to TS 32.158. However, there is no such definition in TS 32.158. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 1. Update the URI for generic fault supervision management service 2. Change the JSON schema to YAML file according to the agreement in 3GPP SA5#129 emeeting | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The incorrect URI and invalid reference are used. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 12.2.1.3.1, 12.2.1.3.2.1.2, 12.2.1.3.2.2.2, 12.2.1.3.2.3.2, 12.2.1.3.2.4.2, 12.2.1.3.2.5.2, 12.2.1.3.2.6.2, 12.2.1.3.2.7.2, A.2.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |

|  |  |
| --- | --- |
| ***This CR's revision history:*** |  |

|  |
| --- |
| **1st Change** |

#### 12.2.1.3 Resources

##### 12.2.1.3.1 Resource structure

Figure 12.2.1.3.1-1 shows the resource structure of the Fault Supervision MnS. The "alarms","comments" and "subscriptions" resource are collection resources.

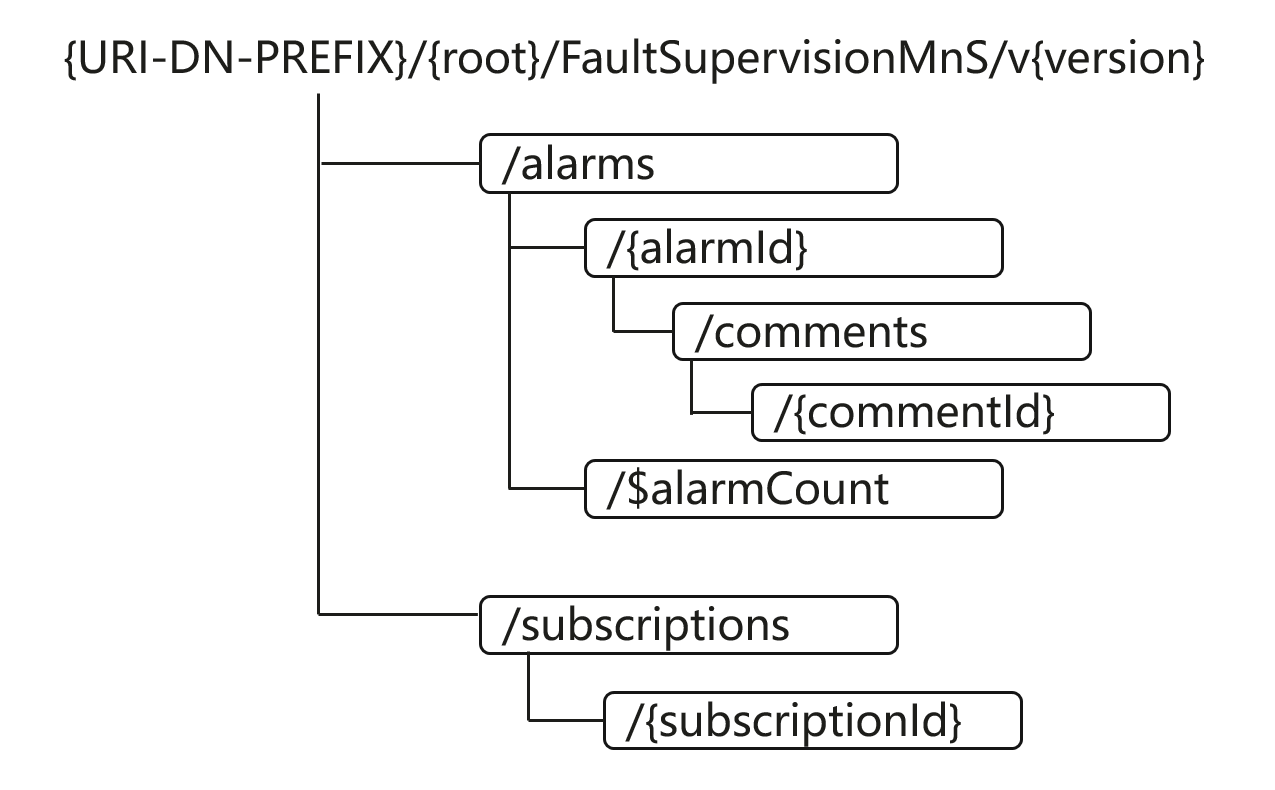


Figure 12.2.1.3.1-1: Resource URI structure of the Fault Supervision MnS

Table 12.2.1.3.1-1 provides an overview of the resources and applicable HTTP methods.

Table 12.2.1.3.1-1: Resources and methods overview

|  |  |  |  |
| --- | --- | --- | --- |
| Resource name | Resource URI | HTTP method | Description |
| alarms | /alarms | GET | Retrieve all alarms or a filtered subset |
| POST | Add a comment to multiple alarms |
| PATCH | Clear, acknowledge or unacknowledge multiple alarms |
| alarm | /alarms/{alarmId} | PATCH | Clear, acknowledge or unacknowledge a single alarms |
| POST | Add a comment to a single alarm |
| $alarmCount | /alarms/$alarmCount | GET | Retrieve the alarm count per perceived severity |
| subscriptions | /subscriptions | POST | Create a subscription |
| subscriptions | /subscriptions | DELETE | Delete all subscriptions made with a consumerReferenceId |
| subscription | /subscriptions/{subscriptionId} | DELETE | Delete a single subscription |
| notificationSink | /notificationSink | POST | Send notifications |

##### 12.2.1.3.2 Resource definitions

###### 12.2.1.3.2.1 Resource "/alarms"

12.2.1.3.2.1.1 Description

This resource represents a collection of alarms.

12.2.1.3.2.1.2 URI

Resource URI: {URI-DN-prefix }/{root}/FaultSupervisionMnS/v1640/alarms

The resource URI variables a defined in the following table.

Table 12.2.1.3.2.1.2-1: URI variables

|  |  |
| --- | --- |
| **Name** | **Definition** |
| URI-DN-prefix | See clause 4.4 of TS 32.158 [15] |
| root | See clause 4.4 of TS 32.158 [15] |

12.2.1.3.2.1.3 HTTP methods

12.2.1.3.2.1.3.1 HTTP GET

This method shall support the URI query parameters specified in the following table.

Table 12.2.1.3.2.1.3.1-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data type** | **Description** | **Qualifier** |
| alarmAckState | alarmAckState-QueryType |  | O |
| href | uri-Type |  | O |
| filter | filter-QueryType |  | O |

This method shall support the request data structures, the response data structures and response codes specified in the following table.

Table 12.2.1.3.2.1.3.1-2: Data structures supported by the GET Request Body on this resource

|  |  |  |
| --- | --- | --- |
| **Data type** | **Description** | **Qualifier** |
| n/a | n/a | n/a |

Table 12.2.1.3.2.1.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| **Data type** | **Response**  **codes** | **Description** | **Qualifier** |
| alarms-Type | 200 OK | The alarms returned. | M |
| error-Type | 4xx/5xx | Returned in case of an error | O |

12.2.1.3.2.1.3.2 HTTP POST

This method shall support the URI query parameters specified in the following table.

Table 12.2.1.3.2.1.3.2-1: URI query parameters supported by the POST method on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data type** | **Description** | **Qualifier** |
| alarmIdList | Array of strings | Identifies the alarms the POST method shall be applied to. | O |

This method shall support the request data structures, the response data structures and response codes specified in the following table.

Table 12.2.1.3.2.1.3.2-2: Data structures supported by the POST Request Body on this resource

|  |  |  |
| --- | --- | --- |
| **Data type** | **Description** | **Qualifier** |
| comment-Type | JSON schema for the representation of a comment resource. | M |

Table 12.2.1.3.2.1.3.2-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| **Data type** | **Response**  **codes** | **Description** | **Qualifier** |
| n/a | 204 No Content | In case of success, the response body shall be empty. | M |
| failedAlarms-ResponseType | 4xx/5xx | In case of failure, the response body shall carry a JSON object described by the "failedAlarms-Type" format. | M |

12.2.1.3.2.1.3.3 HTTP PATCH

This method shall support the URI query parameters specified in the following table.

Table 12.2.1.3.2.1.3.3-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data type** | **Description** | **Qualifier** |
| alarmIds | array (alarmId-Type) | Identifies the alarms the PATCH shall be applied to | M |

This method shall support the request data structures, the response data structures and response codes specified in the following table.

Table 12.2.1.3.2.1.3.3-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |
| --- | --- | --- |
| **Data type** | **Description** | **Qualifier** |
| patchAcknowledgeAlarms-Type | Patch document for acknowledging one or multiple alarms | M |
| patchClearAlarms-Type | Patch document for clearing one or multiple alarms | M |

Table 12.2.1.3.2.1.3.3-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| **Data type** | **Response**  **codes** | **Description** | **Qualifier** |
| n/a | 204 No Content | In case of success the response body shall be empty. | M |
| failedAlarms-ResponseType | 4xx/5xx | In case of failure, the response body shall carry a JSON object described by the "failedAlarms-Type" format. | M |

###### 12.2.1.3.2.2 Resource "alarms /{alarmId}"

12.2.1.3.2.2.1 Description

This resource represents an alarm.

12.2.1.3.2.2.2 URI

Resource URI: {URI-DN-prefix}/{root}/FaultSupervisionMnS/v1640/alarms/{alarmId}

The resource URI variables a defined in the following table.

Table 12.2.1.3.2.2.2-1: URI variables

|  |  |
| --- | --- |
| **Name** | **Definition** |
| URI-DN-prefix | See clause 4.4 of TS 32.158 [15] |
| root | See clause 4.4 of TS 32.158 [15] |
| alarmId | String identifying an alarm |

12.2.1.3.2.2.3 HTTP methods

12.2.1.3.2.2.3.1 HTTP PATCH

This method shall support the URI query parameters specified in the following table.

Table 12.2.1.3.2.2.3.1-1: URI query parameters supported by the PATCH method on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data type** | **Description** | **Qualifier** |
| n/a | n/a | n/a | n/a |

This method shall support the request data structures, the response data structures and response codes specified in the following table.

Table 12.2.1.3.2.2.3.1-2: Data structures supported by the PATCH Request Body on this resource

|  |  |  |
| --- | --- | --- |
| **Data type** | **Description** | **Qualifier** |
| patchAcknowledgeAlarms-Type | Patch document for acknowledging an alarm | M |
| patchClearAlarms-Type | Patch document for clearing an alarm | M |

Table 12.2.1.3.2.2.3.1-3: Data structures supported by the PATCH Response Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| **Data type** | **Response**  **codes** | **Description** | **Qualifier** |
| n/a | 200 OK | In case of success the response body shall be empty. |  |
| failedAlarms-ResponseType | 4xx/5xx | In case of failure, the response body shall carry a JSON object described by the "failedAlarms-Type" format. |  |

###### 12.2.1.3.2.3 Resource "alarms/$alarmCount"

12.2.1.3.2.3.1 Definition

This resource holds metadata about the /alarms collection resource like the alarm count per perceived severity.

12.2.1.3.2.3.2 URI

Resource URI: {URI-DN-prefix}/{root}/FaultSupervisionMnS/v1640/alarms/$alarmCount

The resource URI variables are defined in table 12.2.1.3.2.3.2-1.

Table 12.2.1.3.2.3.2-1: URI variables

|  |  |
| --- | --- |
| Name | Definition |
| URI-DN-prefix | See clause 4.4 of TS 32.158 [15] |
| root | See clause 4.4 of TS 32.158 [15] |

12.2.1.3.2.3.3 HTTP methods

12.2.1.3.2.3.3.1 GET

This method shall support the URI query parameters specified in table 12.2.1.3.2.3.3.1-1.

Table 12.2.1.3.2.3.3.3-1: URI query parameters supported by the GET method on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Data type | Description | SQ |
| n/a |  |  |  |

This method shall support the request data structures specified in table 12.2.1.3.2.3.3.1-2 and the response data structures and response codes specified in table 12.2.1.3.2.3.3.1-3.

Table 12.2.1.3.2.3.3.1-2: Data structures supported by the GET Request Body on this resource

|  |  |  |
| --- | --- | --- |
| Data type | Description | SQ |
|  |  |  |

Table 12.2.1.3.2.3.3.1-3: Data structures supported by the GET Response Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Response  codes | Description | SQ |
| alarmsCount-Type | 200 OK | The alarm count per severity level returned. | M |
| error-Type | 4xx/5xx | Returned in case of an error | O |

###### 12.2.1.3.2.4 Resource "alarms/{alarmId}/comments"

12.2.1.3.2.4.1 Definition

This resource is a collection resource for comments attached to an alarm.

12.2.1.3.2.4.2 URI

Resource URI: {URI-DN-prefix}/{root}/FaultSupervisionMnS/v1640/alarms/{alarmId}/comments

The resource URI variables are defined in the following table.

Table 12.2.1.3.2.4.2-1: URI variables

|  |  |
| --- | --- |
| **Name** | **Definition** |
| URI-DN-prefix | See clause 4.4 of TS 32.158 [15] |
| root | See clause 4.4 of TS 32.158 [15] |
| alarmId | Alarm identifier |

12.2.1.3.2.4.3 HTTP methods

12.2.1.3.2.4.3.1 POST

This method shall support the URI query parameters specified in the following table.

Table 12.2.1.3.2.4.3.1-1: URI query parameters supported by the POST method on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data type** | **Description** | **Qualifier** |
| n/a |  |  |  |

This method shall support the request data structures, and the response data structures and response codes specified in the following tables.

Table 12.2.1.3.2.4.3.1-2: Data structures supported by the POST Request Body on this resource

|  |  |  |
| --- | --- | --- |
| **Data type** | **Description** | **Qualifier** |
| comment-RequestType | The representation of the comment to be added to an alarm. | M |

Table 12.2.1.3.2.4.3.1-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Response  codes | Description | SQ |
| comment-ResponseType | 201 Created | In case of success, the response body shall be described by the "comment-ResponseType" format. The commentTime property shall carry the value set by the server. | M |
| failedAlarms-ResponseType | 4xx/5xx | In case of failure, the response body shall be described by the "failedAlarms-ResponseType" format. | M |

###### 12.2.1.3.2.5 Resource "/{commentId}"

12.2.1.3.2.5.1 Definition

This resource represents a comment attached to an alarm.

12.2.1.3.2.5.2 URI

Resource URI: {URI-DN-prefix}/{root}/FaultSupervisionMnS/v1640/alarms/{alarmId}/comments/{commentId}

The resource URI variables are defined in the following table.

Table 12.2.1.3.2.4.5-1: URI variables

|  |  |
| --- | --- |
| **Name** | **Definition** |
| URI-DN-prefix | See clause 4.4 of TS 32.158 [15] |
| root | See clause 4.4 of TS 32.158 [15] |
| alarmed | Alarm identifier |
| commentId | Comment identifier |

12.2.1.3.2.5.3 HTTP methods

None.

###### 12.2.1.3.2.6 Resource "/subscriptions"

12.2.1.3.2.6.1 Description

This resource is a container resource for individual subscriptions.

12.2.1.3.2.6.2 URI

The resource URI is:

Resource URI: {URI-DN-prefix}/{root}/FaultSupervisionMnS/v1640/subscriptions

The resource URI variables are defined in the following table.

Table 12.2.1.3.2.6.2-1: URI variables

|  |  |
| --- | --- |
| **Name** | **Definition** |
| URI-DN-prefix | See clause 4.4 of TS 32.158 [15] |
| root | See clause 4.4 of TS 32.158 [15] |

12.2.1.3.2.6.3 HTTP methods

12.2.1.3.2.6.3.1 POST

This method shall support the URI query parameters specified in table 12.2.1.3.2.6.3.1-1.

Table 12.2.1.3.2.6.3.1-1: URI query parameters supported by the POST method on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Data type | Description | Qualifier |
| n/a | n/a | n/a | n/a |

This method shall support the request data structures specified in table 12.2.1.3.2.6.3.1-2 and the response data structures and response codes specified in table 12.2.1.3.2.6.3.1-3.

Table 12.2.1.3.2.6.3.1-2: Data structures supported by the POST Request Body on this resource

|  |  |  |
| --- | --- | --- |
| Data type | Description | SQ |
| subscription-RequestType | Details of the subscription to be created | M |

Table 12.2.1.3.2.6.3.1-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Response  codes | Description | SQ |
| subscription-ResponseType | 201 Created | In case of success the representation of the created subscription is returned. | M |
| error-Type | 4xx/5xx | In case of failure the error object is returned. | M |

12.2.1.3.2.6.3.2 DELETE

This method shall support the URI query parameters specified in table 12.2.1.3.2.6.3.2-1.

Table 12.2.1.3.2.6.3.2-1: URI query parameters supported by the DELETE method on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Data type | Description | Qualifier |
| consumerReferenceId | consumerReferenceId-QueryType | Identifies the consumer whose subscriptions shall be deleted | M |

This method shall support the request data structures specified in table 12.2.1.3.2.6.3.2-2 and the response data structures and response codes specified in table 12.2.1.3.2.6.3.2-3.

Table 12.2.1.3.2.6.3.2-2: Data structures supported by the DELETE Request Body on this resource

|  |  |  |
| --- | --- | --- |
| Data type | Description | SQ |
| n/a | n/a | n/a |

Table 12.2.1.3.2.5.3.2-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Response  codes | Description | SQ |
| n/a | 204 No Content | In case of success no message body is returned | n/a |
| error-Type | 4xx/5xx | In case of failure the error object is returned. | M |

###### 12.2.1.3.2.7 Resource "/subscriptions/{subscriptionId}"

12.2.1.3.2.7.1 Description

This resource represents a subscription.

12.2.1.3.2.7.2 URI

The resource URI is:

Resource URI: {URI-DN-prefix}/{root}/FaultSupervisionMnS/v1640/ subscriptions/{subscriptionId}

Table 12.2.1.3.2.7.2-1: URI variables

|  |  |
| --- | --- |
| Name | Definition |
| URI-DN-prefix | See clause 4.4 of TS 32.158 [15] |
| root | See clause 4.4 of TS 32.158 [15] |
| subscriptionId | Subscription identifier |

12.2.1.3.2.7.3 HTTP methods

12.2.1.3.2.7.3.1 DELETE

This method shall support the URI query parameters specified in table 12.2.1.3.2.7.3.1-1.

Table 12.2.1.3.2.6.3.1-1: URI query parameters supported by the DELETE method on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Data type | Description | Qualifier |
| n/a | n/a | n/a | n/a |

This method shall support the request data structures specified in table 12.2.1.3.2.7.3.1-2 and the response data structures and response codes specified in table 12.2.1.3.2.7.3.1-3.

Table 12.2.1.3.2.7.3.1-2: Data structures supported by the DELETE Request Body on this resource

|  |  |  |
| --- | --- | --- |
| Data type | Description | SQ |
| n/a | n/a | n/a |

Table 12.2.1.3.2.7.3.1-3: Data structures supported by the DELETE Response Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Response  codes | Description | SQ |
| n/a | 204 No Content | In case of success no message body is returned | M |
| error-Type | 4xx/5xx | In case of failure the error object is returned. | M |

###### 12.2.1.3.2.8 Resource "/notificationSink"

12.2.1.3.2.8.1 Description

This resource represents a resource to which notifications are sent to.

12.2.1.3.2.8.2 URI

The resource URI is provided by the notification subscriber when creating the subscription.

12.2.1.3.2.8.3 HTTP methods

12.2.1.3.2.8.3.1 POST

This method shall support the URI query parameters specified in table 12.2.1.3.2.8.3.1-1.

Table 12.2.1.3.2.8.3.1-1: URI query parameters supported by the POST method on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Data type | Description | Qualifier |
| n/a | n/a | n/a | n/a |

This method shall support the request data structures specified in table 12.2.1.3.2.8.3.1-2 and the response data structures and response codes specified in table 12.2.1.3.2.8.3.1-3.

Table 12.2.1.3.2.8.3.1-2: Data structures supported by the POST Request Body on this resource

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Data type | | Description | | SQ | |
| notifyNewAlarm-NotifType | | Type in case a notifyNewAlarm notification is sent | | M | |
| notifyNewSecurityAlarm-NotifType | | Type in case a notifyNewSecurityAlarm notification is sent | | M | |
| notifyAckStateChanged-NotifType | | Type in case a notifyAckStateChanged notification is sent | | M | |
| notifyClearedAlarm-NotifType | | Type in case a notifyClearedAlarm notification is sent | | M | |
| notifyAlarmListRebuilt-NotifType | | Type in case a notifyAlarmListRebuilt notification is sent | | M | |
| notifyChangedAlarm-NotifType | | Type in case a notifyChangedAlarm notification is sent | | M | |
| notifyComments-NotifType | | Type in case a notifyComments notification is sent | | M | |
| notifyPotentialFaultyAlarmList-NotifType | | Type in case a notifyPotentialFaultyAlarmList notification is sent | | M | |
| notifyCorrelatedNotificationChanged-NotifType | | Type in case a notifyCorrelatedNotificationChanged notification is sent | | M | |
| notifyChangedAlarmGeneral-NotifType | | Type in case a notifyChangedAlarmGeneral notification is sent | | M | |

Table 12.2.1.3.2.8.3.1-3: Data structures supported by the POST Response Body on this resource

|  |  |  |  |
| --- | --- | --- | --- |
| Data type | Response  codes | Description | SQ |
| n/a | 204 No Content | In case of success no message body is returned | M |
| error-Type | 4xx/5xx | In case of failure the error object is returned. | M |

|  |
| --- |
| **3rd Change** |

## A.2.1 Generic fault supervision management service

openapi: 3.0.1

info:

title: TS 28.532 Fault Supervision Management Service

version: 16.4.0

description: >-

OAS 3.0.1 specification of the Fault Supervision Management Service © 2020,

3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI, TTA, TTC). All

rights reserved.

externalDocs:

description: 3GPP TS 28.532 V16.4.0; Generic management services

url: 'http://www.3gpp.org/ftp/Specs/archive/28\_series/28.532/'

servers:

- url: 'http://{URI-DN-prefix}/{root}/FaultSupervisionMnS/v1640'

variables:

URI-DN-prefix:

description: See subclause 4.4 of TS 32.158

default: example.com

root:

description: See subclause 4.4 of TS 32.158

default: 3GPPManagement

paths:

/alarms:

get:

summary: Retrieve alarms

description: 'Retrieve the alarms identified by alarmAckState, href and filter.'

parameters:

- name: alarmAckState

in: query

required: false

schema:

$ref: '#/components/schemas/alarmAckState-QueryType'

- name: href

in: query

required: false

schema:

$ref: '#/components/schemas/href-QueryType'

- name: filter

in: query

required: false

schema:

$ref: '#/components/schemas/filter-QueryType'

responses:

'200':

description: >-

Success case ("200 OK"). Returns the alarms identified in the

request.

content:

application/json:

schema:

$ref: '#/components/schemas/alarms-ResponseType'

default:

description: Response in case of error.

content:

application/json:

schema:

$ref: '#/components/schemas/error-ResponseType'

post:

summary: Add a comment to multiple alarms

description: Add a comment to multiple alarms

parameters:

- name: alarmId

in: query

description: Identifies the alarms to which the comment shall be added

required: true

schema:

$ref: '#/components/schemas/alarmIdList-QueryType'

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/comment-RequestType'

responses:

'201':

description: >-

Success case. The representation of the newly created comment

resource shall be returned.

content:

application/json:

schema:

$ref: '#/components/schemas/comment-ResponseType'

default:

description: Error case.

content:

application/json:

schema:

$ref: '#/components/schemas/failedAlarms-ResponseType'

patch:

summary: 'Clear, acknowledge or unacknowledge multiple alarms'

description: tba

parameters:

- name: alarmId

in: query

description: Identifies the alarms to be patched. The type shall be

required: true

schema:

oneOf:

- $ref: '#/components/schemas/alarmIdList-QueryType'

- $ref: '#/components/schemas/alarmIdAndPerceivedSeverityList-QueryType'

requestBody:

description: Patch document

content:

application/json:

schema:

oneOf:

- $ref: '#/components/schemas/patchAcknowledgeAlarms-RequestType'

- $ref: '#/components/schemas/patchUnacknowledgeAlarms-RequestType'

- $ref: '#/components/schemas/patchClearAlarms-RequestType'

responses:

'204':

description: 'In case of success, the response body shall be empty.'

default:

description: Response in case of error.

content:

application/json:

schema:

$ref: '#/components/schemas/failedAlarms-ResponseType'

/alarms/$alarmsCount:

get:

summary: Get the alarm count per perceived severity

parameters:

- name: alarmAckState

in: query

required: false

schema:

$ref: '#/components/schemas/alarmAckState-QueryType'

- name: filter

in: query

required: false

schema:

$ref: '#/components/schemas/filter-QueryType'

responses:

'200':

description: >-

Success case ("200 OK"). The alarm count per perceived severity is

returned

default:

description: Response in case of error. The error case needs rework.

content:

application/json:

schema:

$ref: '#/components/schemas/alarmsCount-ResponseType'

'/alarms/{alarmId}':

patch:

summary: 'Clear, acknowledge or unacknowledge a single alarm'

description: >-

Clear, acknowledge or uncknowldege a single alarm by patching the alarm

information

parameters:

- name: alarmId

in: path

description: Identifies the alarm to be patched.

required: true

schema:

$ref: '#/components/schemas/alarmId-PathType'

- name: perceivedSeverity

description: >-

This parameter may be present when acknowledging an alarm. For other

patch actions it shall be absent.

in: query

required: false

schema:

$ref: '#/components/schemas/perceivedSeverity-QueryType'

requestBody:

required: true

content:

application/merge-patch+json:

schema:

oneOf:

- $ref: '#/components/schemas/patchAcknowledgeAlarms-RequestType'

- $ref: '#/components/schemas/patchUnacknowledgeAlarms-RequestType'

- $ref: '#/components/schemas/patchClearAlarms-RequestType'

responses:

'200':

description: Response in case of success.

default:

description: Response in case of error. The error case needs rework.

content:

application/json:

schema:

$ref: '#/components/schemas/failedAlarms-ResponseType'

'/alarms/{alarmId}/comments':

post:

summary: Add a comment to a single alarm

description: Add a comment to an alarm identified by alarmId.

parameters:

- name: alarmId

in: path

description: Identifies the alarm to which the comment shall be added.

required: true

schema:

$ref: '#/components/schemas/alarmId-PathType'

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/comment-RequestType'

responses:

'201':

description: >-

Success case. The representation of the newly created comment

resource shall be returned.

content:

application/json:

schema:

$ref: '#/components/schemas/comment-ResponseType'

default:

description: Error case.

content:

application/json:

schema:

$ref: '#/components/schemas/failedAlarms-ResponseType'

/subscriptions:

post:

summary: Create a subscription

description: >-

To create a subscription the representation of the subscription is

POSTed on the /subscriptions collection resource.

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/subscription-RequestType'

responses:

'201':

description: >-

Success case ("201 Created"). The representation of the newly

created subscription resource shall be returned.

content:

application/json:

schema:

$ref: '#/components/schemas/subscription-ResponseType'

default:

description: Error case.

content:

application/json:

schema:

$ref: '#/components/schemas/error-ResponseType'

callbacks:

notifyNewAlarm:

'{request.body#/consumerReference}':

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/notifyNewAlarm-NotifType'

responses:

'204':

description: >-

Success case ("204 No Content"). The notification is

successfully delivered. The response message body is absent.

default:

description: Error case.

content:

application/json:

schema:

$ref: '#/components/schemas/error-ResponseType'

notifyNewSecurityAlarm:

'{request.body#/consumerReference}':

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/notifyNewSecurityAlarm-NotifType'

responses:

'204':

description: >-

Success case ("204 No Content"). The notification is

successfully delivered. The response message body is absent.

default:

description: Error case.

content:

application/json:

schema:

$ref: '#/components/schemas/error-ResponseType'

notifyAckStateChanged:

'{request.body#/consumerReference}':

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/notifyAckStateChanged-NotifType'

responses:

'204':

description: >-

Success case ("204 No Content"). The notification is

successfully delivered. The response message body is absent.

default:

description: Error case.

content:

application/json:

schema:

$ref: '#/components/schemas/error-ResponseType'

notifyClearedAlarm:

'{request.body#/consumerReference}':

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/notifyClearedAlarm-NotifType'

responses:

'204':

description: >-

Success case ("204 No Content"). The notification is

successfully delivered. The response message body is absent.

default:

description: Error case.

content:

application/json:

schema:

$ref: '#/components/schemas/error-ResponseType'

notifyAlarmListRebuilt:

'{request.body#/consumerReference}':

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/notifyAlarmListRebuilt-NotifType'

responses:

'204':

description: >-

Success case ("204 No Content"). The notification is

successfully delivered. The response message body is absent.

default:

description: Error case.

content:

application/json:

schema:

$ref: '#/components/schemas/error-ResponseType'

notifyChangedAlarm:

'{request.body#/consumerReference}':

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/notifyChangedAlarm-NotifType'

responses:

'204':

description: >-

Success case ("204 No Content"). The notification is

successfully delivered. The response message body is absent.

default:

description: Error case.

content:

application/json:

schema:

$ref: '#/components/schemas/error-ResponseType'

notifyComments:

'{request.body#/consumerReference}':

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/notifyComments-NotifType'

responses:

'204':

description: >-

Success case ("204 No Content"). The notification is

successfully delivered. The response message body is absent.

default:

description: Error case.

content:

application/json:

schema:

$ref: '#/components/schemas/error-ResponseType'

notifyPotentialFaultyAlarmList:

'{request.body#/consumerReference}':

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: >-

#/components/schemas/notifyPotentialFaultyAlarmList-NotifType

responses:

'204':

description: >-

Success case ("204 No Content"). The notification is

successfully delivered. The response message body is absent.

default:

description: Error case.

content:

application/json:

schema:

$ref: '#/components/schemas/error-ResponseType'

notifyCorrelatedNotificationChanged:

'{request.body#/consumerReference}':

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: >-

#/components/schemas/notifyCorrelatedNotificationChanged-NotifType

responses:

'204':

description: >-

Success case ("204 No Content"). The notification is

successfully delivered. The response message body is absent.

default:

description: Error case.

content:

application/json:

schema:

$ref: '#/components/schemas/error-ResponseType'

notifyChangedAlarmGeneral:

'{request.body#/consumerReference}':

post:

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/notifyChangedAlarmGeneral-NotifType'

responses:

'204':

description: >-

Success case ("204 No Content"). The notification is

successfully delivered. The response message body is absent.

default:

description: Error case.

content:

application/json:

schema:

$ref: '#/components/schemas/error-ResponseType'

delete:

summary: Delete all subscriptions made with a specific consumerReferenceId

description: >-

The subscriptions are deleted by deleting the corresponding subscription

resources. The resources to be deleted are identified with the path

component of the URI pointing to the /subscription collection resource

and filtering on the consumerReferenceId provided in the query part.

parameters:

- name: consumerReferenceId

in: query

description: Identifies the subscriptions to be deleted.

required: true

schema:

$ref: '#/components/schemas/consumerReferenceId-QueryType'

responses:

'204':

description: >-

Success case ("204 No Content"). The subscription resources have

been deleted. The response message body is absent.

default:

description: Error case.

content:

application/json:

schema:

$ref: '#/components/schemas/error-ResponseType'

'/subscriptions/{subscriptionId}':

delete:

summary: Delete a single subscription

description: >-

The subscription is deleted by deleting the corresponding subscription

resource. The resource to be deleted is identified with the path

component of the URI.

parameters:

- name: subscriptionId

in: path

description: Identifies the subscription to be deleted.

required: true

schema:

$ref: '#/components/schemas/subscriptionId-PathType'

responses:

'204':

description: >-

Success case ("204 No Content"). The subscription resource has been

deleted. The response message body is absent.

default:

description: Error case.

content:

application/json:

schema:

$ref: '#/components/schemas/error-ResponseType'

components:

schemas:

attributeNameValuePair-Type:

type: object

properties:

attributeName:

type: string

attributeValue: {}

dateTime-Type:

type: string

format: date-Time

float-Type:

type: string

format: float

long-Type:

type: string

format: long

uri-Type:

type: string

header-Type:

description: >-

Header used in notifications as notification header and as header in the

alarm resource

type: object

properties:

uri:

$ref: '#/components/schemas/uri-Type'

notificationId:

$ref: '#/components/schemas/notificationId-Type'

notificationType:

$ref: '#/components/schemas/notificationType-Type'

eventTime:

$ref: '#/components/schemas/dateTime-Type'

systemDN:

$ref: '#/components/schemas/systemDN-Type'

alarmId-PathType:

type: string

subscriptionId-PathType:

type: string

alarmAckState-QueryType:

type: string

enum:

- allAlarms

- allActiveAlarms

- allActiveAndAcknowledgedAlarms

- allActiveAndUnacknowledgedAlarms

- allClearedAndUnacknowledgedAlarms

- allUnacknowledgedAlarms

consumerReferenceId-QueryType:

$ref: '#/components/schemas/uri-Type'

filter-QueryType:

type: string

href-QueryType:

type: string

alarmIdList-QueryType:

type: array

items:

$ref: '#/components/schemas/alarmId-Type'

alarmIdAndPerceivedSeverityList-QueryType:

type: array

items:

$ref: '#/components/schemas/alarmIdAndPerceivedSeverity-Type'

perceivedSeverity-QueryType:

$ref: '#/components/schemas/perceivedSeverity-Type'

comment-RequestType:

type: object

properties:

data:

$ref: '#/components/schemas/comment-ResourceType'

patchAcknowledgeAlarms-RequestType:

description: Used to patch alarm attributes to acknowledge one or multiple alarm

type: object

properties:

ackUserId:

$ref: '#/components/schemas/ackUserId-Type'

ackSystemId:

$ref: '#/components/schemas/ackSystemId-Type'

ackState:

type: string

enum:

- acknowledged

patchUnacknowledgeAlarms-RequestType:

description: Used to patch alarm attributes to unacknowledge one or multiple alarm

type: object

properties:

ackUserId:

$ref: '#/components/schemas/ackUserId-Type'

ackSystemId:

$ref: '#/components/schemas/ackSystemId-Type'

ackState:

type: string

enum:

- unacknowledged

patchClearAlarms-RequestType:

description: Used to patch the attributes related to clear

type: object

properties:

clearUserId:

$ref: '#/components/schemas/clearUserId-Type'

clearSystemId:

$ref: '#/components/schemas/clearSystemId-Type'

perceivedSeverity:

type: string

enum:

- cleared

subscription-RequestType:

type: object

properties:

data:

$ref: '#/components/schemas/subscription-ResourceType'

alarms-ResponseType:

type: object

properties:

data:

type: array

items:

$ref: '#/components/schemas/alarm-ResourceType'

alarmsCount-ResponseType:

type: object

properties:

data:

$ref: '#/components/schemas/alarmsCount-Type'

comment-ResponseType:

type: object

properties:

data:

$ref: '#/components/schemas/comment-ResourceType'

error-ResponseType:

type: object

properties:

error:

type: object

properties:

errorInfo:

type: string

failedAlarms-ResponseType:

type: object

properties:

error:

type: array

items:

type: object

properties:

alarmId:

$ref: '#/components/schemas/alarmId-Type'

errorReason:

type: string

subscription-ResponseType:

type: object

properties:

data:

$ref: '#/components/schemas/subscription-ResourceType'

notifyNewAlarm-NotifType:

type: object

properties:

header:

$ref: '#/components/schemas/header-Type'

body:

type: object

properties:

alarmId:

$ref: '#/components/schemas/alarmId-Type'

alarmType:

$ref: '#/components/schemas/alarmType-Type'

probableCause:

$ref: '#/components/schemas/probableCause-Type'

specificProblem:

$ref: '#/components/schemas/specificProblem-Type'

perceivedSeverity:

$ref: '#/components/schemas/perceivedSeverity-Type'

backedUpStatus:

$ref: '#/components/schemas/backedUpStatus-Type'

backUpObject:

$ref: '#/components/schemas/backUpObject-Type'

trendIndication:

$ref: '#/components/schemas/trendIndication-Type'

thresholdInfo:

$ref: '#/components/schemas/thresholdInfo-Type'

correlatedNotifications:

type: array

items:

$ref: '#/components/schemas/correlatedNotification-Type'

stateChangeDefinition:

type: array

items:

$ref: '#/components/schemas/attributeValueChange-Type'

monitoredAttributes:

type: array

items:

$ref: '#/components/schemas/attributeNameValuePair-Type'

proposedRepairActions:

$ref: '#/components/schemas/proposedRepairActions-Type'

additionalText:

$ref: '#/components/schemas/additionalText-Type'

additionalInformation:

type: array

items:

$ref: '#/components/schemas/attributeNameValuePair-Type'

rootCauseIndicator:

$ref: '#/components/schemas/rootCauseIndicator-Type'

notifyNewSecurityAlarm-NotifType:

type: object

properties:

header:

$ref: '#/components/schemas/header-Type'

body:

type: object

properties:

alarmId:

$ref: '#/components/schemas/alarmId-Type'

alarmType:

$ref: '#/components/schemas/alarmType-Type'

probableCause:

$ref: '#/components/schemas/probableCause-Type'

specificProblem:

$ref: '#/components/schemas/specificProblem-Type'

perceivedSeverity:

$ref: '#/components/schemas/perceivedSeverity-Type'

correlatedNotifications:

type: array

items:

$ref: '#/components/schemas/correlatedNotification-Type'

additionalText:

$ref: '#/components/schemas/additionalText-Type'

additionalInformation:

type: array

items:

$ref: '#/components/schemas/attributeNameValuePair-Type'

rootCauseIndicator:

$ref: '#/components/schemas/rootCauseIndicator-Type'

serviceUser:

$ref: '#/components/schemas/serviceUser-Type'

serviceProvider:

$ref: '#/components/schemas/serviceProvider-Type'

securityAlarmDetector:

$ref: '#/components/schemas/securityAlarmDetector-Type'

notifyAckStateChanged-NotifType:

type: object

properties:

header:

$ref: '#/components/schemas/header-Type'

body:

type: object

properties:

alarmId:

$ref: '#/components/schemas/alarmId-Type'

alarmType:

$ref: '#/components/schemas/alarmType-Type'

probableCause:

$ref: '#/components/schemas/probableCause-Type'

perceivedSeverity:

$ref: '#/components/schemas/perceivedSeverity-Type'

ackState:

$ref: '#/components/schemas/ackState-Type'

ackUserId:

$ref: '#/components/schemas/ackUserId-Type'

ackSystemId:

$ref: '#/components/schemas/ackSystemId-Type'

notifyClearedAlarm-NotifType:

type: object

properties:

header:

$ref: '#/components/schemas/header-Type'

body:

type: object

properties:

alarmId:

$ref: '#/components/schemas/alarmId-Type'

alarmType:

$ref: '#/components/schemas/alarmType-Type'

probableCause:

$ref: '#/components/schemas/probableCause-Type'

perceivedSeverity:

$ref: '#/components/schemas/perceivedSeverity-Type'

correlatedNotifications:

type: array

items:

$ref: '#/components/schemas/correlatedNotification-Type'

clearUserId:

$ref: '#/components/schemas/clearUserId-Type'

clearSystemId:

$ref: '#/components/schemas/clearSystemId-Type'

notifyAlarmListRebuilt-NotifType:

type: object

properties:

header:

$ref: '#/components/schemas/header-Type'

body:

type: object

properties:

probableCause:

$ref: '#/components/schemas/probableCause-Type'

reason:

$ref: '#/components/schemas/reason-Type'

alarmListAlignmentRequirement:

$ref: '#/components/schemas/alarmListAlignmentRequirement-Type'

notifyChangedAlarm-NotifType:

type: object

properties:

header:

$ref: '#/components/schemas/header-Type'

body:

type: object

properties:

alarmId:

$ref: '#/components/schemas/alarmId-Type'

alarmType:

$ref: '#/components/schemas/alarmType-Type'

probableCause:

$ref: '#/components/schemas/probableCause-Type'

perceivedSeverity:

$ref: '#/components/schemas/perceivedSeverity-Type'

notifyComments-NotifType:

type: object

properties:

header:

$ref: '#/components/schemas/header-Type'

body:

type: object

properties:

alarmId:

$ref: '#/components/schemas/alarmId-Type'

alarmType:

$ref: '#/components/schemas/alarmType-Type'

probableCause:

$ref: '#/components/schemas/probableCause-Type'

perceivedSeverity:

$ref: '#/components/schemas/perceivedSeverity-Type'

comments:

type: array

items:

$ref: '#/components/schemas/comment-ResourceType'

notifyPotentialFaultyAlarmList-NotifType:

type: object

properties:

header:

$ref: '#/components/schemas/header-Type'

body:

type: object

properties:

reason:

$ref: '#/components/schemas/reason-Type'

notifyCorrelatedNotificationChanged-NotifType:

type: object

properties:

header:

$ref: '#/components/schemas/header-Type'

body:

type: object

properties:

rootCauseIndicator:

$ref: '#/components/schemas/rootCauseIndicator-Type'

correlatedNotifications:

type: array

items:

$ref: '#/components/schemas/correlatedNotification-Type'

alarmId:

$ref: '#/components/schemas/alarmId-Type'

notifyChangedAlarmGeneral-NotifType:

type: object

properties:

header:

$ref: '#/components/schemas/header-Type'

body:

type: object

properties:

alarmType:

$ref: '#/components/schemas/alarmType-Type'

alarmId:

$ref: '#/components/schemas/alarmId-Type'

probableCause:

$ref: '#/components/schemas/probableCause-Type'

perceivedSeverity:

$ref: '#/components/schemas/perceivedSeverity-Type'

rootCauseIndicator:

$ref: '#/components/schemas/rootCauseIndicator-Type'

specificProblem:

$ref: '#/components/schemas/specificProblem-Type'

correlatedNotifications:

type: array

items:

$ref: '#/components/schemas/correlatedNotification-Type'

backedUpStatus:

$ref: '#/components/schemas/backedUpStatus-Type'

trendIndication:

$ref: '#/components/schemas/trendIndication-Type'

thresholdInfo:

$ref: '#/components/schemas/thresholdInfo-Type'

stateChangeDefinition:

type: array

items:

$ref: '#/components/schemas/attributeValueChange-Type'

monitoredAttributes:

type: array

items:

$ref: '#/components/schemas/attributeNameValuePair-Type'

proposedRepairActions:

$ref: '#/components/schemas/proposedRepairActions-Type'

additionalText:

$ref: '#/components/schemas/additionalText-Type'

additionalInformation:

type: array

items:

$ref: '#/components/schemas/attributeNameValuePair-Type'

changedAlarmAttributes:

type: array

items:

$ref: '#/components/schemas/attributeNameValuePair-Type'

backUpObject:

$ref: '#/components/schemas/backUpObject-Type'

alarm-ResourceType:

type: object

properties:

header:

$ref: '#/components/schemas/header-Type'

body:

type: object

properties:

alarmType:

$ref: '#/components/schemas/alarmType-Type'

alarmId:

$ref: '#/components/schemas/alarmId-Type'

alarmRaisedTime:

$ref: '#/components/schemas/dateTime-Type'

alarmChangedTime:

$ref: '#/components/schemas/dateTime-Type'

alarmClearedTime:

$ref: '#/components/schemas/dateTime-Type'

probableCause:

$ref: '#/components/schemas/probableCause-Type'

perceivedSeverity:

$ref: '#/components/schemas/perceivedSeverity-Type'

rootCauseIndicator:

$ref: '#/components/schemas/rootCauseIndicator-Type'

specificProblem:

$ref: '#/components/schemas/specificProblem-Type'

backedUpStatus:

$ref: '#/components/schemas/backedUpStatus-Type'

trendIndication:

$ref: '#/components/schemas/trendIndication-Type'

thresholdinfo:

$ref: '#/components/schemas/thresholdInfo-Type'

stateChangeDefinition:

type: array

items:

$ref: '#/components/schemas/attributeValueChange-Type'

monitoredAttributes:

type: array

items:

$ref: '#/components/schemas/attributeNameValuePair-Type'

proposedRepairActions:

$ref: '#/components/schemas/proposedRepairActions-Type'

additionalText:

$ref: '#/components/schemas/additionalText-Type'

additionalInformation:

type: array

items:

$ref: '#/components/schemas/attributeNameValuePair-Type'

ackTime:

$ref: '#/components/schemas/dateTime-Type'

ackUserId:

$ref: '#/components/schemas/ackUserId-Type'

ackSystemId:

$ref: '#/components/schemas/ackSystemId-Type'

ackState:

$ref: '#/components/schemas/ackState-Type'

clearUserId:

$ref: '#/components/schemas/clearUserId-Type'

clearSystemId:

$ref: '#/components/schemas/clearSystemId-Type'

backUpObject:

$ref: '#/components/schemas/backUpObject-Type'

correlatedNotifications:

type: array

items:

$ref: '#/components/schemas/correlatedNotification-Type'

comments:

type: array

items:

$ref: '#/components/schemas/comment-ResourceType'

serviceUser:

$ref: '#/components/schemas/serviceUser-Type'

serviceProvider:

$ref: '#/components/schemas/serviceProvider-Type'

securityAlarmDetector:

$ref: '#/components/schemas/securityAlarmDetector-Type'

comment-ResourceType:

type: object

properties:

commentTime:

$ref: '#/components/schemas/dateTime-Type'

commentText:

$ref: '#/components/schemas/commentText-Type'

commentUserId:

$ref: '#/components/schemas/commentUserId-Type'

commentSystemId:

$ref: '#/components/schemas/commentSystemId-Type'

subscription-ResourceType:

type: object

properties:

consumerReference:

$ref: '#/components/schemas/uri-Type'

timeTick:

$ref: '#/components/schemas/long-Type'

filter:

$ref: '#/components/schemas/filter-Type'

ackState-Type:

type: string

enum:

- acknowledged

- unacknowledged

ackSystemId-Type:

type: string

ackUserId-Type:

type: string

additionalText-Type:

type: string

alarmId-Type:

type: string

alarmIdAndPerceivedSeverity-Type:

type: object

properties:

alarmId:

$ref: '#/components/schemas/alarmId-Type'

perceivedSeverity:

$ref: '#/components/schemas/perceivedSeverity-Type'

alarmListAlignmentRequirement-Type:

type: string

enum:

- Alignment Required

- Alignment Not Required

alarmsCount-Type:

type: object

properties:

criticalCount:

type: integer

majorCount:

type: integer

minorCount:

type: integer

warningCount:

type: integer

indeterminateCount:

type: integer

clearedCount:

type: integer

alarmType-Type:

type: string

enum:

- Communications Alarm

- Processing Error Alarm

- Environmental Alarm

- Quality Of Service Alarm

- Equipment Alarm

- Integrity Violation

- Operational Violation

- Physical Violation

- Security Service or Mechanism Violation

- Time Domain Violation

attributeValueChange-Type:

type: object

properties:

attributeName:

type: string

oldAttributeValue: {}

newAttributeValue: {}

backedUpStatus-Type:

type: boolean

backUpObject-Type:

$ref: '#/components/schemas/uri-Type'

clearSystemId-Type:

type: string

clearUserId-Type:

type: string

commentText-Type:

type: string

commentUserId-Type:

type: string

commentSystemId-Type:

type: string

correlatedNotification-Type:

type: object

properties:

source:

$ref: '#/components/schemas/uri-Type'

notificationIds:

type: array

items:

$ref: '#/components/schemas/notificationId-Type'

filter-Type:

type: string

indication-Type:

type: string

enum:

- Up

- Down

notificationId-Type:

$ref: '#/components/schemas/long-Type'

notificationType-Type:

type: string

enum:

- notifyNewAlarm

- notifyAckStateChanged

- notifyClearedAlarm

- notifyAlarmListRebuiltAlarm

- notifyChangedAlarm

- notifyComments

- notifyPotentialFaultyAlarmList

- notifyCorrelatedNotificationChanged

- notifyChangedAlarmGeneral

perceivedSeverity-Type:

type: string

enum:

- Critical

- Major

- Minor

- Warning

- Indeterminate

- Cleared

probableCause-Type:

type: string

proposedRepairActions-Type:

type: string

reason-Type:

type: string

rootCauseIndicator-Type:

type: boolean

securityAlarmDetector-Type:

type: string

serviceProvider-Type:

type: string

serviceUser-Type:

type: string

specificProblem-Type:

type: string

systemDN-Type:

type: string

thresholdInfo-Type:

type: object

properties:

attributeName:

type: string

observedValue:

$ref: '#/components/schemas/float-Type'

thresholdLevel:

$ref: '#/components/schemas/thresholdLevel-Type'

armTime:

$ref: '#/components/schemas/dateTime-Type'

thresholdLevel-Type:

type: object

properties:

indication:

$ref: '#/components/schemas/indication-Type'

low:

$ref: '#/components/schemas/float-Type'

high:

$ref: '#/components/schemas/float-Type'

trendIndication-Type:

type: string

enum:

- More severe

- No change

- Less severe

|  |
| --- |
| **End of Change** |