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

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

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| --- |
| *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)*.* |
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|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***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 canbe 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 | Responsecodes | 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 | Responsecodes | 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 | Responsecodes | 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 | Responsecodes | 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 | Responsecodes | 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 | Responsecodes | 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** |