**3GPP TSG-CT3 Meeting #122e C3-223706**

**E-Meeting, 12th – 20th May 2022**

|  |
| --- |
| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **29.257** | **CR** | **0004** | **rev** | **-** | **Current version:** | **17.0.0** |  |
|  |
| *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 |  | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  | Update of info and externalDocs fields |
|  |  |
| ***Source to WG:*** | Huawei |
| ***Source to TSG:*** | CT3 |
|  |  |
| ***Work item code:*** | TEI17 |  | ***Date:*** | 2022-05-20 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-17 |
|  | *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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | During this plenary cycle (2022-Q2), there have been some backwards compatible changes / corrections / addition of new features to the following UAE Server APIs defined in TS 29.257. In addition, since the stage 3 of the current 3GPP release, i.e. Rel-17, will be frozen for OpenAPI descriptions, the API version needs to be updated as per the guidelines defined in clause 4.3.1 of TS 29.501, i.e. the "-alpha.n" suffix should be removed.The following agreed CRs update the OpenAPI description of the **UAE\_C2OperationModeManagement API** for the present release:* TS 29.257 CR#0001 introduces backwards compatible corrections.
* TS 29.257 CR#0002 introduces backwards compatible corrections.
* TS 29.257 CR#0003 introduces backwards compatible corrections.

The API version need to be updated from 1.0.0-alpha.**5** to **1.0.0**The following agreed CRs update theOpenAPI description of the **UAE\_RealtimeUAVStatus API** for the present release:* None.

The API version need to be updated from 1.0.0-alpha.**4** to **1.0.0**The "externalDocs" object description field is also be updated to "v17.**1**.0" for these APIs. |
|  |  |
| ***Summary of change:*** | The CR proposes the following changes:* Update the pre-release version number from "a.b.c-alpha.**n**" to "a.b.c" for the above listed APIs.
* Update the TS version number in "externalDocs" object description field to "v17.**1**.0".
 |
|  |  |
| ***Consequences if not approved:*** | OpenAPI version and the "externalDocs" object description field are not updated in the OpenAPI files impacted by the agreed CRs during Q2-2022 plenary cycle in CT3. |
|  |  |
| ***Clauses affected:*** | A.2, A.3 |
|  |  |
|  | **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:*** |  |

\* \* \* Start of changes \* \* \* \*

## A.2 UAE\_C2OperationModeManagement API

openapi: 3.0.0

info:

 title: UAE Server C2 Operation Mode Management Service

 version: 1.0.0

 description: |

 UAE Server C2 Operation Mode Management Service.

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externalDocs:

 description: >

 3GPP TS 29.257 V17.1.0; Application layer support for Uncrewed Aerial System (UAS);

 UAS Application Enabler (UAE) Server Services; Stage 3.

 url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.257/

servers:

 - url: '{apiRoot}/uae-c2opmode-mngt/v1'

 variables:

 apiRoot:

 default: https://example.com

 description: apiRoot as defined in clause 5.2.4 of 3GPP TS 29.122

security:

 - {}

 - oAuth2ClientCredentials: []

paths:

 /initiate:

 post:

 summary: Request the provisioning of C2 Operation Mode configuration information for a UAS (i.e. pair of UAV and UAV-C).

 operationId: InitiateC2OpModeConfig

 tags:

 - Initiate C2 Operation Mode configuration

 requestBody:

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/ConfigureData'

 responses:

 '200':

 description: >

 The communicated C2 Operation Mode configuration information was successfully received.

 The response body contains the feedback of the UAE Server on whether this C2 Operation

 Mode configuration request is confirmed (i.e. can be undertaken by the UAE Server) or

 not.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/C2Result'

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 callbacks:

 C2OpModeMngtCompletionNotification:

 '{$request.body#/notificationUri}/c2mode-mngt-completion':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/C2OpModeMngtCompStatus'

 responses:

 '204':

 description: >

 No Content. The notification was succesfull and the C2 Operation Mode

 Management Completion status for the concerned UAS (i.e. pair of UAV

 and UAV-C) was successfully received and acknowledged by the UASS.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 SelectedC2CommunicationModeNotification:

 '{$request.body#/notificationUri}/inform-selec-c2mode':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/SelectedC2CommModeNotif'

 responses:

 '204':

 description: >

 No Content. The notification was succesfull and the C2 Communication Mode

 selected by the concerned UAS (i.e. pair of UAV and UAV-C) was successfully

 received and acknowledged by the UASS.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 C2CommunicationModeSwitchingNotification:

 '{$request.body#/notificationUri}/inform-c2mode-switch':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/C2CommModeSwitchNotif'

 responses:

 '200':

 description: >

 OK. The targeted C2 Communication Mode switching for the concerned UAS

 (i.e. pair of UAV and UAV-C) is successfully received. The response body

 contains the feedback of the UASS on whether this C2 Communication Mode

 switching is confirmed (i.e. validated) or not.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/C2Result'

 '204':

 description: >

 No Content. The targeted C2 Communication Mode switching for the concerned

 UAS (i.e. pair of UAV and UAV-C) is successfully received and acknowledged,

 and the UASS does not need to confirm (i.e. validate) it.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

components:

 securitySchemes:

 oAuth2ClientCredentials:

 type: oauth2

 flows:

 clientCredentials:

 tokenUrl: '{tokenUrl}'

 scopes: {}

 schemas:

 ConfigureData:

 description: >

 Represents the parameters to request to provision C2 Operation Mode configuration

 information for a UAS (i.e. pair of UAV and UAV-C).

 type: object

 properties:

 uassId:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/Uri'

 uasId:

 $ref: '#/components/schemas/UasId'

 allowedC2CommModes:

 type: array

 items:

 $ref: '#/components/schemas/C2CommMode'

 minItems: 1

 c2CommModeSwitchTypes:

 type: array

 items:

 $ref: '#/components/schemas/C2CommModeSwitching'

 minItems: 1

 notificationUri:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/Uri'

 primaryC2CommMode:

 $ref: '#/components/schemas/C2CommMode'

 secondaryC2CommMode:

 $ref: '#/components/schemas/C2CommMode'

 c2SwitchPolicies:

 $ref: '#/components/schemas/C2SwitchPolicies'

 c2ServiceArea:

 $ref: '#/components/schemas/C2ServiceArea'

 suppFeat:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

 required:

 - uassId

 - uasId

 - allowedC2CommModes

 - c2CommModeSwitchTypes

 - notificationUri

 - primaryC2CommMode

 - c2SwitchPolicies

 SelectedC2CommModeNotif:

 description: >

 Represents information on the C2 Communication Mode selected by a UAS (i.e. pair of

 UAV and UAV-C).

 type: object

 properties:

 uasId:

 $ref: '#/components/schemas/UasId'

 selPrimaryC2CommMode:

 $ref: '#/components/schemas/C2CommMode'

 selSecondaryC2CommMode:

 $ref: '#/components/schemas/C2CommMode'

 required:

 - uasId

 - selPrimaryC2CommMode

 C2CommModeSwitchNotif:

 description: >

 Represents information on the targeted C2 Communication Mode switching for a UAS

 (i.e. pair of UAV and UAV-C).

 type: object

 properties:

 uaeServerId:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/Uri'

 uasId:

 $ref: '#/components/schemas/UasId'

 c2CommModeSwitchType:

 $ref: '#/components/schemas/C2CommModeSwitching'

 switchingCause:

 $ref: '#/components/schemas/C2SwitchingCause'

 required:

 - uaeServerId

 - uasId

 - c2CommModeSwitchType

 C2Result:

 description: Represents the result of an action related to C2 of a UAS.

 type: object

 properties:

 c2OpConfirmed:

 type: boolean

 suppFeat:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

 required:

 - c2OpConfirmed

 UasId:

 description: Represents the identifier of a UAS (i.e. pair of UAV and UAV-C).

 type: object

 properties:

 groupId:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/ExternalGroupId'

 individualUasId:

 type: array

 items:

 $ref: '#/components/schemas/UavId'

 minItems: 2

 oneOf:

 - required: [groupId]

 - required: [individualUasId]

 UavId:

 description: Represents the identifier of a UAV (e.g. UAV, UAV-C).

 type: object

 properties:

 gpsi:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/Gpsi'

 caaId:

 type: string

 anyOf:

 - required: [gpsi]

 - required: [caaId]

 C2ServiceArea:

 description: Represents a C2 service area.

 type: object

 properties:

 ncgiList:

 type: array

 items:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/Ncgi'

 taiList:

 type: array

 items:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/Tai'

 geographicAreaList:

 type: array

 items:

 $ref: 'TS29572\_Nlmf\_Location.yaml#/components/schemas/GeographicArea'

 oneOf:

 - required: [geographicAreaList]

 - anyOf:

 - required: [ncgiList]

 - required: [taiList]

 C2OpModeMngtCompStatus:

 description: >

 Represents the C2 Operation Mode Management Completion status for a UAV

 (e.g. UAV, UAV-C).

 type: object

 properties:

 uasId:

 $ref: '#/components/schemas/UasId'

 status:

 $ref: '#/components/schemas/C2OpModeStatus'

 required:

 - status

 C2SwitchPolicies:

 description: Represents the C2 operation mode switching policies.

 type: object

 properties:

 directC2LinkQualityThrlds:

 $ref: '#/components/schemas/C2LinkQualityThrlds'

 uuC2LinkQualityThrlds:

 $ref: '#/components/schemas/C2LinkQualityThrlds'

 C2LinkQualityThrlds:

 description: Represents the C2 link quality thresholds.

 type: object

 properties:

 nrRsrpThrldLow:

 type: integer

 minimum: 0

 maximum: 127

 nrRsrpThrldHigh:

 type: integer

 minimum: 0

 maximum: 127

 nrRsrqThrldLow:

 type: integer

 minimum: 0

 maximum: 127

 nrRsrqThrldHigh:

 type: integer

 minimum: 0

 maximum: 127

 packetLossThrldLow:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/PacketLossRate'

 packetLossThrldHigh:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/PacketLossRate'

# ENUMS:

 C2CommMode:

 description: Represents the C2 Communication Modes.

 anyOf:

 - type: string

 enum:

 - DIRECT\_C2\_COMMUNICATION

 - NETWORK\_ASSISTED\_C2\_COMMUNICATION

 - UTM\_NAVIGATED\_C2\_COMMUNICATION

 - type: string

 C2CommModeSwitching:

 description: Represents the C2 Communication Mode Switching types.

 anyOf:

 - type: string

 enum:

 - DIRECT\_TO\_NETWORK\_ASSISTED\_C2

 - NETWORK\_ASSISTED\_TO\_DIRECT\_C2

 - DIRECT\_TO\_UTM\_NAVIGATED\_C2

 - NETWORK\_ASSISTED\_TO\_UTM\_NAVIGATED\_C2

 - type: string

 C2SwitchingCause:

 description: Represents the C2 Communication Mode Switching cause.

 anyOf:

 - type: string

 enum:

 - DIRECT\_LINK\_QUALITY\_DEGRADATION

 - DIRECT\_LINK\_AVAILABLE

 - MOVING\_BVLOS

 - LOCATION\_CHANGE

 - TRAFFIC\_CONTROL\_NEEDED

 - SECURITY\_REASONS

 - OTHER\_REASONS

 - type: string

 C2OpModeStatus:

 description: Represents the C2 Operation Mode Management Completion status.

 anyOf:

 - type: string

 enum:

 - SUCCESSFUL

 - NOT\_SUCCESSFUL

 - type: string

\* \* \* Next changes \* \* \* \*

## A.3 UAE\_RealtimeUAVStatus API

openapi: 3.0.0

info:

 title: UAE Server Real-time UAV Status Service

 version: 1.0.0

 description: |

 UAE Server Real-time UAV Status Service.

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externalDocs:

 description: >

 3GPP TS 29.257 V17.1.0; Application layer support for Uncrewed Aerial System (UAS);

 UAS Application Enabler (UAE) Server Services; Stage 3.

 url: https://www.3gpp.org/ftp/Specs/archive/29\_series/29.257/

servers:

 - url: '{apiRoot}/uae-uav-status/v1'

 variables:

 apiRoot:

 default: https://example.com

 description: apiRoot as defined in clause 5.2.4 of 3GPP TS 29.122

security:

 - {}

 - oAuth2ClientCredentials: []

paths:

 /subscriptions:

 get:

 summary: Retrieve all the active real-time UAV status subscriptions managed by the UAE Server.

 operationId: GetRTUavStatusSubscriptions

 tags:

 - Real-time UAV Status Subscriptions (Collection)

 responses:

 '200':

 description: >

 OK. All the active real-time UAV status subscriptions managed by the UAE Server

 shall be returned.

 content:

 application/json:

 schema:

 type: array

 items:

 $ref: '#/components/schemas/RTUavStatusSubsc'

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '406':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/406'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 post:

 summary: Request the creation of a subscription to real-time UAV status reporting.

 operationId: CreateRTUavStatusSubsc

 tags:

 - Real-time UAV Status Subscriptions (Collection)

 requestBody:

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/RTUavStatusSubsc'

 responses:

 '200':

 description: >

 OK. The subscription is successfully created and a representation of the created

 Individual Real-time UAV Status Subscription resource shall be returned.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/RTUavStatusSubsc'

 headers:

 Location:

 description: >

 Contains the URI of the created Individual Real-time UAV Status Subscription

 resource.

 required: true

 schema:

 type: string

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 callbacks:

 RTUavStatusNotification:

 '{$request.body#/notificationUri}/uav-status':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/RTUavStatusNotif'

 responses:

 '204':

 description: >

 No Content. The real-time UAV status notification is successfully

 received and acknowledged.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '411':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/411'

 '413':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/413'

 '415':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/415'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 /subscriptions/{subscriptionId}:

 get:

 summary: Retrieve a real-time UAV status subscription resource.

 operationId: GetRTUavStatusSubscription

 tags:

 - Individual Real-time UAV Status Subscription (Document)

 parameters:

 - name: subscriptionId

 in: path

 description: Individual Real-time UAV Status Subscription identifier.

 required: true

 schema:

 type: string

 responses:

 '200':

 description: OK. The requested real-time UAV status subscription resource shall be returned.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/RTUavStatusSubsc'

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '406':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/406'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 put:

 summary: Request the update of an existing real-time UAV status subscription.

 operationId: UpdateRTUavStatusSubscription

 tags:

 - Individual Real-time UAV Status Subscription (Document)

 parameters:

 - name: subscriptionId

 in: path

 description: Individual Real-time UAV Status Subscription identifier.

 required: true

 schema:

 type: string

 requestBody:

 required: true

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/RTUavStatusSubsc'

 responses:

 '200':

 description: >

 OK. The real-time UAV status subscription is successfully updated and a

 representation of the updated Individual Real-time UAV Status Subscription

 resource shall be returned.

 content:

 application/json:

 schema:

 $ref: '#/components/schemas/RTUavStatusSubsc'

 '204':

 description: No Content. The real-time UAV status subscription is successfully updated.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '406':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/406'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

 delete:

 summary: Request the deletion of an existing real-time UAV status subscription.

 operationId: DeleteRTUavStatusSubscription

 tags:

 - Individual Real-time UAV Status Subscription (Document)

 parameters:

 - name: subscriptionId

 in: path

 description: Individual Real-time UAV Status Subscription identifier.

 required: true

 schema:

 type: string

 responses:

 '204':

 description: >

 No Content. The Individual Real-time UAV Status Subscription resource

 is successfully deleted.

 '307':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/307'

 '308':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/308'

 '400':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/400'

 '401':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/401'

 '403':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/403'

 '404':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/404'

 '406':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/406'

 '429':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/429'

 '500':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/500'

 '503':

 $ref: 'TS29122\_CommonData.yaml#/components/responses/503'

 default:

 $ref: 'TS29122\_CommonData.yaml#/components/responses/default'

components:

 securitySchemes:

 oAuth2ClientCredentials:

 type: oauth2

 flows:

 clientCredentials:

 tokenUrl: '{tokenUrl}'

 scopes: {}

 schemas:

 RTUavStatusSubsc:

 description: >

 Represents the parameters to request the creation or update of a subscription

 to real-time UAV status reporting.

 type: object

 properties:

 uassId:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/Uri'

 uavIds:

 type: array

 items:

 $ref: 'TS29257\_UAE\_C2OperationModeManagement.yaml#/components/schemas/UavId'

 minItems: 1

 notificationUri:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/Uri'

 suppFeat:

 $ref: 'TS29571\_CommonData.yaml#/components/schemas/SupportedFeatures'

 required:

 - uassId

 - uavIds

 - notificationUri

 RTUavStatusNotif:

 description: Represents a real-time UAV status notification.

 type: object

 properties:

 subscriptionId:

 type: string

 rTUavStatus:

 type: array

 items:

 $ref: '#/components/schemas/RTUavStatus'

 minItems: 1

 required:

 - subscriptionId

 - rTUavStatus

 RTUavStatus:

 description: Represents real-time UAV status information.

 type: object

 properties:

 uavId:

 $ref: 'TS29257\_UAE\_C2OperationModeManagement.yaml#/components/schemas/UavId'

 uavNetConnStatus:

 $ref: '#/components/schemas/UavNetConnStatus'

 uavLocInfo:

 $ref: 'TS29122\_MonitoringEvent.yaml#/components/schemas/LocationInfo'

 allOf:

 - required: [uavId]

 - oneOf:

 - required: [uavLocInfo]

 - allOf:

 - required: [uavLocInfo]

 - required: [uavNetConnStatus]

 UavNetConnStatus:

 description: Represents UAV network connection status information.

 type: object

 properties:

 statusInfo:

 $ref: 'TS29122\_MonitoringEvent.yaml#/components/schemas/MonitoringType'

 timestamp:

 $ref: 'TS29122\_CommonData.yaml#/components/schemas/DateTime'

 required:

 - statusInfo

 - timestamp

\* \* \* End of changes \* \* \*