**3GPP TSG- Meeting #**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  |
| *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:***  |  |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** | SA5 |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** |  |
|  | *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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | Stage 2 of ther notification "notifyMOIChanges" is corrected. The change needs to be reflercxted in the OpenAPI definition. |
|  |  |
| ***Summary of change:*** | The stage 2 changes to "notifyMOIChanges" are reflected in the OpenAPI definition. |
|  |  |
| ***Consequences if not approved:*** | Stage 2 for "notifyMOIChanges" would not be aligned with the OpenAPI definition. |
|  |  |
| ***Clauses affected:*** | A.1.1 |
|  |  |
|  | **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:*** |  |

|  |
| --- |
| **First modification** |

## A.1.1 OpenAPI document "provMnS.yaml"

openapi: 3.0.1

info:

 title: Provisioning MnS

 version: 17.1.0

 description: >-

 OAS 3.0.1 definition of the Provisioning MnS

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externalDocs:

 description: 3GPP TS 28.532; Generic management services

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

servers:

 - url: '{MnSRoot}/ProvMnS/{MnSVersion}/{URI-LDN-first-part}'

 variables:

 MnSRoot:

 description: See clause 4.4.2 of TS 32.158

 default: http://example.com/3GPPManagement

 MnSVersion:

 description: Version number of the OpenAPI definition

 default: XXX

 URI-LDN-first-part:

 description: See clause 4.4.2 of TS 32.158

 default: ''

paths:

 '/{className}={id}':

 parameters:

 - name: className

 in: path

 required: true

 schema:

 type: string

 - name: id

 in: path

 required: true

 schema:

 type: string

 put:

 summary: Replaces a complete single resource or creates it if it does not exist

 description: >-

 With HTTP PUT a complete resource is replaced or created if it does not

 exist. The target resource is identified by the target URI.

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '200':

 description: >-

 Success case ("200 OK").

 This status code shall be returned when the resource is replaced, and

 when the replaced resource representation is not identical to the resource

 representation in the request.

 This status code may be retourned when the resource is updated and when the

 updated resource representation is identical to the resource representation

 in the request.

 The representation of the updated resource is returned in the response

 message body.

 content:

 application/json:

 schema:

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

 '201':

 description: >-

 Success case ("201 Created").

 This status code shall be returned when the resource is created.

 The representation of the created resource is returned in the response

 message body.

 content:

 application/json:

 schema:

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

 '204':

 description: >-

 Success case ("204 No Content").

 This status code may be returned only when the replaced resource

 representation is identical to the representation in the request.

 The response has no message body.

 default:

 description: Error case.

 content:

 application/json:

 schema:

 $ref: 'comDefs.yaml#/components/schemas/ErrorResponse'

 callbacks:

 notifyMOICreation:

 '{request.body#/notificationRecipientAddress}':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: >-

 Success case ("204 No Content").

 The notification is successfully delivered. The response

 has no message body.

 default:

 description: Error case.

 content:

 application/json:

 schema:

 $ref: 'comDefs.yaml#/components/schemas/ErrorResponse'

 notifyMOIDeletion:

 '{request.body#/notificationRecipientAddress}':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: >-

 Success case ("204 No Content").

 The notification is successfully delivered. The response

 has no message body.

 default:

 description: Error case.

 content:

 application/json:

 schema:

 $ref: 'comDefs.yaml#/components/schemas/ErrorResponse'

 notifyMOIAttributeValueChanges:

 '{request.body#/notificationRecipientAddress}':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 responses:

 '204':

 description: >-

 Success case ("204 No Content").

 The notification is successfully delivered. The response

 has no message body.

 default:

 description: Error case.

 content:

 application/json:

 schema:

 $ref: 'comDefs.yaml#/components/schemas/ErrorResponse'

 notifyMOIChanges:

 '{request.body#/notificationRecipientAddress}':

 post:

 requestBody:

 required: true

 content:

 application/json:

 schema:

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

 application/yang-data+json:

 schema:

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

 responses:

 '204':

 description: >-

 Success case ("204 No Content").

 The notification is successfully delivered. The response

 has no message body.

 default:

 description: Error case.

 content:

 application/json:

 schema:

 $ref: 'comDefs.yaml#/components/schemas/ErrorResponse'

 get:

 summary: Reads one or multiple resources

 description: >-

 With HTTP GET resources are read. The resources to be retrieved are

 identified with the target URI. The attributes and fields parameter

 of the query components allow to select the resource properties to be returned.

 parameters:

 - name: scope

 in: query

 description: >-

 This parameter extends the set of targeted resources beyond the base

 resource identified with the path component of the URI. No scoping

 mechanism is specified in the present document.

 required: false

 schema:

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

 style: form

 explode: true

 - name: filter

 in: query

 description: >-

 This parameter reduces the targeted set of resources by applying a

 filter to the scoped set of resource representations. Only resource

 representations for which the filter construct evaluates to "true"

 are targeted. No filter language is specified in the present

 document.

 required: false

 schema:

 $ref: 'comDefs.yaml#/components/schemas/Filter'

 - name: attributes

 in: query

 description: >-

 This parameter specifies the attributes of the scoped resources that

 are returned.

 required: true

 schema:

 type: array

 items:

 type: string

 style: form

 explode: false

 - name: fields

 in: query

 description: >-

 This parameter specifies the attribute field of the scoped resources

 that are returned.

 required: false

 schema:

 type: array

 items:

 type: string

 style: form

 explode: false

 responses:

 '200':

 description: >-

 Success case ("200 OK").

 The resources identified in the request for retrieval are returned

 in the response message body. In case the attributes or fields query

 parameters are used, only the selected attributes or sub-attributes are

 returned. The response message body is constructed according to the

 hierarchical response construction method (TS 32.158 [15]).

 content:

 application/json:

 schema:

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

 default:

 description: Error case.

 content:

 application/json:

 schema:

 $ref: 'comDefs.yaml#/components/schemas/ErrorResponse'

 patch:

 summary: Patches one or multiple resources

 description: >-

 With HTTP PATCH resources are created, updated or deleted. The resources

 to be modified are identified with the target URI (base resource) and

 the patch document included in the request message body.

 requestBody:

 description: >-

 The request body describes changes to be made to the target resources.

 The following patch media types are available

 - "application/merge-patch+json" (RFC 7396)

 - "application/3gpp-merge-patch+json" (TS 32.158)

 - "application/json-patch+json" (RFC 6902)

 - "application/3gpp-json-patch+json" (TS 32.158)

 required: true

 content:

 application/merge-patch+json:

 schema:

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

 application/3gpp-merge-patch+json:

 schema:

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

 application/json-patch+json:

 schema:

 type: array

 items:

 type: object

 application/3gpp-json-patch+json:

 schema:

 type: array

 items:

 type: object

 responses:

 '200':

 description: >-

 Success case ("200 OK").

 This status code is returned when the updated the resource representations

 shall be returned for some reason.

 The resource representations are returned in the response message body. The

 response message body is constructed according to the hierarchical response

 construction method (TS 32.158 [15])

 content:

 application/json:

 schema:

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

 '204':

 description: >-

 Success case ("204 No Content").

 This status code is returned when there is no need to return the updated

 resource representations.

 The response message body is empty.

 default:

 description: Error case.

 content:

 application/json:

 schema:

 $ref: 'comDefs.yaml#/components/schemas/ErrorResponse'

 delete:

 summary: Deletes one or multiple resources

 description: >-

 With HTTP DELETE resources are deleted. The resources to be deleted are

 identified with the target URI.

 parameters:

 - name: scope

 in: query

 description: >-

 This parameter extends the set of targeted resources beyond the base

 resource identified with the path component of the URI. No scoping

 mechanism is specified in the present document.

 required: false

 schema:

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

 style: form

 explode: true

 - name: filter

 in: query

 description: >-

 This parameter reduces the targeted set of resources by applying a

 filter to the scoped set of resource representations. Only resources

 representations for which the filter construct evaluates to "true"

 are returned. No filter language is specified in the present

 document.

 required: false

 schema:

 $ref: 'comDefs.yaml#/components/schemas/Filter'

 responses:

 '200':

 description: >-

 Success case ("200 OK").

 This status code shall be returned, when query parameters are present in

 the request and one or multiple resources are deleted.

 The URIs of the deleted resources are returned in the response message body.

 '204':

 description: >-

 Success case ("204 No Content").

 This status code shall be returned, when no query parameters are present in

 the request and only one resource is deleted.

 The message body is empty.

 content:

 application/json:

 schema:

 type: array

 items:

 $ref: 'comDefs.yaml#/components/schemas/Uri'

 default:

 description: Error case.

 content:

 application/json:

 schema:

 $ref: 'comDefs.yaml#/components/schemas/ErrorResponse'

components:

 schemas:

 CorrelatedNotification:

 type: object

 properties:

 source:

 $ref: 'comDefs.yaml#/components/schemas/Dn'

 notificationIds:

 type: array

 items:

 $ref: 'comDefs.yaml#/components/schemas/NotificationId'

 required:

 - source

 - notificationIds

 CmNotificationTypes:

 type: string

 enum:

 - notifyMOICreation

 - notifyMOIDeletion

 - notifyMOIAttributeValueChanges

 - notifyMOIChanges

 SourceIndicator:

 type: string

 enum:

 - RESOURCE\_OPERATION

 - MANAGEMENT\_OPERATION

 - SON\_OPERATION

 - UNKNOWN

 Operation:

 type: string

 enum:

 - add

 - remove

 - replace

 ScopeType:

 type: string

 enum:

 - BASE\_ONLY

 - BASE\_NTH\_LEVEL

 - BASE\_SUBTREE

 - BASE\_ALL

 Scope:

 type: object

 properties:

 scopeType:

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

 scopeLevel:

 type: integer

 Resource:

 oneOf:

 - type: object

 properties:

 id:

 type: string

 attributes:

 type: object

 additionalProperties:

 type: array

 items:

 type: object

 - anyOf:

 - $ref: 'genericNrm.yaml#/components/schemas/resources-genericNrm'

 - $ref: 'nrNrm.yaml#/components/schemas/resources-nrNrm'

 - $ref: '5gcNrm.yaml#/components/schemas/resources-5gcNrm'

 - $ref: 'sliceNrm.yaml#/components/schemas/resources-sliceNrm'

 MoiChange:

 type: object

 properties:

 notificationId:

 $ref: 'comDefs.yaml#/components/schemas/NotificationId'

 correlatedNotifications:

 type: array

 items:

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

 additionalText:

 type: string

 sourceIndicator:

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

 operation:

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

 path:

 $ref: 'comDefs.yaml#/components/schemas/Uri'

 value: {}

 oldValue: {}

 required:

 - notificationId

 - path

 - operation

 NotifyMoiCreation:

 allOf:

 - $ref: 'comDefs.yaml#/components/schemas/NotificationHeader'

 - type: object

 properties:

 correlatedNotifications:

 type: array

 items:

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

 additionalText:

 type: string

 sourceIndicator:

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

 attributeList:

 $ref: 'comDefs.yaml#/components/schemas/AttributeNameValuePairSet'

 NotifyMoiDeletion:

 allOf:

 - $ref: 'comDefs.yaml#/components/schemas/NotificationHeader'

 - type: object

 properties:

 correlatedNotifications:

 type: array

 items:

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

 additionalText:

 type: string

 sourceIndicator:

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

 attributeList:

 $ref: 'comDefs.yaml#/components/schemas/AttributeNameValuePairSet'

 NotifyMoiAttributeValueChanges:

 allOf:

 - $ref: 'comDefs.yaml#/components/schemas/NotificationHeader'

 - type: object

 properties:

 correlatedNotifications:

 type: array

 items:

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

 additionalText:

 type: string

 sourceIndicator:

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

 attributeListValueChanges:

 $ref: 'comDefs.yaml#/components/schemas/AttributeValueChangeSet'

 required:

 - attributeListValueChanges

 NotifyMoiChanges:

 allOf:

 - $ref: 'comDefs.yaml#/components/schemas/NotificationHeader'

 - type: object

 properties:

 moiChanges:

 type: array

 items:

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

 required:

 - moiChanges

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| --- |
| **End of modifications** |