**3GPP TSG- Meeting #**

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| *CR-Form-v12.1* |
| **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 |  | Core Network |  |

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|  |
| ***Title:***  |  |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** | S5 |
|  |  |
| ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
|  |  |
| ***Reason for change:*** | Stage 3 for Edge NRM propsoed in S5-214455 |
|  |  |
| ***Summary of change:*** | Stage-3 for Edge NRM |
|  |  |
| ***Consequences if not approved:*** | No Stage 3 |
|  |  |
| ***Clauses affected:*** | Y (new clause) |
|  |  |
|  | **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:*** |  |

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| **First modification** |

# P.1 General

This annex contains the OpenAPI definition of the Edge NRM in YAML format.

The Information Service (IS) of the Edge NRM is defined in clause 6.

Mapping rules to produce the OpenAPI definition based on the IS are defined in TS 32.160 [10].

# P.2 Solution Set (SS) definitions

## P.2.1 OpenAPI document "edgeNrm.yml"

openapi: 3.0.1

info:

 title: 3GPP Edge NRM

 version: 17.1.0

 description: >-

 OAS 3.0.1 specification of the Edge NRM

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externalDocs:

 description: 3GPP TS 28.538; Edge NRM

 url: http://www.3gpp.org/ftp/Specs/archive/28\_series/28.538/

paths: {}

components:

 schemas:

#-------- Definition of types-----------------------------------------------------

 EASRequirements:

 type: object

 properties:

 requiredEASservingLocation:

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

 ServingLocation:

 type: object

 properties:

 geographicalLocation:

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

 topologicalLocation:

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

 GeoLoc:

 type: object

 properties:

 geoPoint:

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

 civicAddress:

 Type: String

 GeoP:

 type: object

 properties:

 lat:

 type: float

 long:

 type: float

 TopoLoc:

 type: object

 properties:

 cellID:

 Type: string

 tAI:

 Type: string

 pLMNID:

 Type: string

 EASProfile:

 type: object

 properties:

 eASservingLocation:

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

 eASProvider:

 Type: string

 eASType:

 Type: string

 eASDescription:

 Type: string

#-------- Definition of concrete IOCs --------------------------------------------

 SubNetwork-Single:

 allOf:

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

 - type: object

 properties:

 attributes:

 allOf:

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

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

 - type: object

 properties:

 DNFunction:

 $ref: '5GCNrm.yaml#/components/schemas/DNFunction'

 DNFunction-Single:

 allOf:

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

 - type: object

 properties:

 attributes:

 type: object

 properties:

 EASFunction:

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

 EESFunction:

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

 EASFunction-Single:

 allOf:

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

 - type: object

 properties:

 attributes:

 allOf:

 - type: object

 properties:

 eASRequirements:

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

 eASProfile:

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

#-------- Definition of JSON arrays for name-contained IOCs ----------------------

 DNFunction -Multiple:

 type: array

 items:

 $ref: '#/components/schemas/DNFunction-Single'

 EASFunction-Single:

 type: array

 items:

 $ref: '#/components/schemas/EASFunction-Single'