**3GPP TSG- Meeting #**

**, , -**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***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 can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-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:*** | |  | | | | | | | | |

|  |
| --- |
| **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

© 2020, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI, TTA, TTC).

All rights reserved.

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'