**3GPP TSG-SA5 Meeting #140-e *S5-216231***

**e-meeting, 15 - 24 November 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **28.536** | **CR** | **-** | **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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **x** | Core Network | **x** |

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| ***Title:*** | Input to draftCR S5-215550 Add stage 3 SS definitions to assurance report for eCOSLA | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eCOSLA | | | | |  | ***Date:*** | | | 2021-11-2 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **C** |  | | | | | ***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 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:*** | | Solution Set (SS) definitions for AssuranceReport are missing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add Solution Set (SS) definitions for AssuranceReport. | | | | | | | | |
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| ***Consequences if not approved:*** | | Stage 3 definitions of AssuranceReport are incomplete. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | B.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 is input to the Rel-17 28.536 DraftCR S5-215550 for eCOSLA | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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| **1st of changes** |

# B.2 Solution Set (SS) definitions

## B.2.1 OpenAPI document "coslaNrm.yml"

openapi: 3.0.2

info:

title: coslaNrm

version: 16.4.0

description:

OAS 3.0.1 specification of the Cosla NRM

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externalDocs:

description: 3GPP TS 28.536 V16.4.0; Cosla NRM

url: http://www.3gpp.org/ftp/Specs/archive/28\_series/28.536/

paths: {}

components:

schemas:

#------------ Type definitions ---------------------------------------------------

ControlLoopLifeCyclePhase:

type: string

enum:

- PREPARATION

- COMMISSIONING

- OPERATION

- DECOMMISSIONING

ObservationTime:

type: integer

AssuranceGoalStatusObserved:

type: string

enum:

- FULFILLED

- NOT\_FULFILLED

AssuranceGoalStatusPredicted:

type: string

enum:

- FULFILLED

- NOT\_FULFILLED

AssuranceTargetStatusObserved:

type: string

enum:

- FULFILLED

- NOT\_FULFILLED

AssuranceTargetStatusPredicted:

type: string

enum:

- FULFILLED

- NOT\_FULFILLED

AssuranceTarget:

type: object

properties:

assuranceTargetName:

type: string

assuranceTargetValue:

type: string

AssuranceTargetList:

type: array

items:

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

AssuranceGoalStatus:

type: object

properties:

assuranceGoalStatusId:

type: string

assuranceGoalStatusObserved:

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

assuranceGoalStatusPredicted:

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

AssuranceGoalStatusList:

type: array

items:

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

AssuranceTargetStatus:

type: object

properties:

assuranceTargetStatusId:

type: string

assuranceTargetStatusObserved:

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

assuranceTargetStatusPredicted:

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

AssuranceTargetStatusList:

type: array

items:

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

#-------- 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:

AssuranceClosedControlLoop:

$ref: '#/components/schemas/AssuranceClosedControlLoop-Multiple'

ManagedElement-Single:

allOf:

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

- type: object

properties:

attributes:

allOf:

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

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

- type: object

properties:

AssuranceClosedControlLoop:

$ref: '#/components/schemas/AssuranceClosedControlLoop-Multiple'

AssuranceClosedControlLoop-Single:

allOf:

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

- type: object

properties:

attributes:

type: object

properties:

operationalState:

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

administrativeState:

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

controlLoopLifeCyclePhase:

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

AssuranceGoal:

$ref: '#/components/schemas/AssuranceGoal-Multiple'

AssuranceGoal-Single:

allOf:

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

- type: object

properties:

attributes:

allOf:

- type: object

properties:

observationTime:

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

assuranceTargetList:

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

serviceProfileId:

type: string

sliceProfileId:

type: string

networkSliceRef:

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

networkSliceSubnetRef:

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

AssuranceReport-Single:

allOf:

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

- type: object

properties:

attributes:

allOf:

- type: object

properties:

assuranceGoalStatusList:

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

assuranceTargetStatusList:

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

assuranceClosedControlLoopRef:

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

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

AssuranceClosedControlLoop-Multiple:

type: array

items:

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

AssuranceGoal-Multiple:

type: array

items:

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

#------------ Definitions in TS 28.536 for TS 28.623 -----------------------------

resources-coslaNrm:

oneOf:

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

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

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

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

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

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| **End of changes** |