**3GPP TSG-SA5 Meeting #145-e *S5-225147***

e-meeting, 15 - 24 August 2022

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **28.104** | **CR** | **0011** | **rev** | **1** | **Current version:** | **17.0.1** |  |
|  |
| *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:***  | Rel-17 CR TS 28.104 OpenAPI file name and dependence change |
|  |  |
| ***Source to WG:*** | Huawei, Intel |
| ***Source to TSG:*** | S5  |
|  |  |
| ***Work item code:*** | eMDAS |  | ***Date:*** | 2022-07-25 |
|  |  |  |  |  |
| ***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:*** | According to the endorsed DP SP-220341 in SA#95, one of the action is to update OpenAPI YAML file names to be prefixed with the TS number |
|  |  |
| ***Summary of change:*** | Update the file names in spec and update the depended reference across yaml files for mdaNrm.yaml and mdaReport.yaml |
|  |  |
| ***Consequences if not approved:*** | The TS number is missing in corrspondig OpenAPI YAML file names |
|  |  |
| ***Clauses affected:*** | A.2.1, A.2.2 |
|  |  |
|  | **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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| **1st Change** |

# A.2 Solution Set (SS) definitions

## A.2.1 OpenAPI document "TS28104\_MdaNrm.yaml"

openapi: 3.0.1

info:

 title: MDA NRM

 version: 17.0.0

 description: >-

 OAS 3.0.1 specification of the MDA NRM

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externalDocs:

 description: TS 28.104; MDA

 url: http://www.3gpp.org/ftp/Specs/archive/28\_series/28.104/

paths: {}

components:

 schemas:

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

 MDATypes:

 type: array

 items:

 type: string

 MDAOutputs:

 type: array

 items:

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

 MDAOutputPerMDAType:

 type: object

 properties:

 mDAType:

 type: string

 mDAOutputIEFilters:

 type: array

 items:

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

 MDAOutputIEFilter:

 type: object

 properties:

 mDAOutputIEName:

 type: string

 filterValue:

 type: string

 threshold:

 $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ThresholdInfo'

 analyticsPeriod:

 type: array

 items:

 $ref: 'TS28623\_ComDefs.yaml#/components/schemas/DateTime'

 timeOut:

 $ref: 'TS28623\_ComDefs.yaml#/components/schemas/DateTime'

 ReportingMethod:

 type: string

 enum:

 - FILE

 - STREAMING

 - NOTIFICATION

 ReportingTarget:

 $ref: 'TS28623\_ComDefs.yaml#/components/schemas/Uri'

 AnalyticsScope:

 oneOf:

 - type: object

 properties:

 managedEntitiesScope:

 $ref: 'TS28623\_ComDefs.yaml#/components/schemas/DnList'

 - type: object

 properties:

 areaScope:

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

 GeoAreaList:

 type: array

 items:

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

 GeoArea:

 type: object

 properties:

 coordinates:

 type: array

 items:

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

 altitude:

 type: number

 format: float

 Coordinate:

 type: object

 properties:

 latitude:

 $ref: 'TS28623\_ComDefs.yaml#/components/schemas/Latitude'

 longitude:

 $ref: 'TS28623\_ComDefs.yaml#/components/schemas/Longitude'

#-------- Definition of abstract IOCs --------------------------------------------

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

 SubNetwork-Single:

 allOf:

 - $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

 - type: object

 properties:

 attributes:

 $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/SubNetwork-Attr'

 - $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/SubNetwork-ncO'

 - type: object

 properties:

 SubNetwork:

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

 ManagedElement:

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

 MDAFunction:

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

 MDAReport:

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

 ManagedElement-Single:

 allOf:

 - $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

 - type: object

 properties:

 attributes:

 $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedElement-Attr'

 - $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedElement-ncO'

 - type: object

 properties:

 MDAFunction:

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

 MDAFunction-Single:

 allOf:

 - $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

 - type: object

 properties:

 attributes:

 allOf:

 - $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-Attr'

 - type: object

 properties:

 supportedMDACapabilities:

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

 - $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/ManagedFunction-ncO'

 - type: object

 properties:

 MDARequest:

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

 MDARequest-Single:

 allOf:

 - $ref: 'TS28623\_GenericNrm.yaml#/components/schemas/Top'

 - type: object

 properties:

 attributes:

 allOf:

 - type: object

 properties:

 requestedMDAOutputs:

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

 reportingMethod:

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

 reportingTarget:

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

 analyticsScope:

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

 startTime:

 $ref: 'TS28623\_ComDefs.yaml#/components/schemas/DateTime'

 stopTime:

 $ref: 'TS28623\_ComDefs.yaml#/components/schemas/DateTime'

 MDAReport-Single:

 $ref: 'TS28104\_MdaReport.yaml#/components/schemas/MDAReport'

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

 SubNetwork-Multiple:

 type: array

 items:

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

 ManagedElement-Multiple:

 type: array

 items:

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

 MDAFunction-Multiple:

 type: array

 items:

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

 MDARequest-Multiple:

 type: array

 items:

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

 MDAReport-Multiple:

 type: array

 items:

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

#-------- Definitions in TS 28.104 for TS 28.532 ---------------------------------

 resources-mdaNrm:

 oneOf:

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

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

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

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

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

## A.2.2 OpenAPI document "TS28104\_MdaReport.yaml"

openapi: 3.0.1

info:

 title: MDA Report

 version: 17.0.0

 description: >-

 OAS 3.0.1 specification of the MDA Report

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externalDocs:

 description: TS 28.104; MDA Report

 url: http://www.3gpp.org/ftp/Specs/archive/28\_series/28.104/

paths: {}

components:

 schemas:

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

 MDAOutputs:

 type: object

 properties:

 mDAType:

 type: string

 mdaOutputList:

 type: array

 items:

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

 mDARequestRef:

 $ref: 'TS28623\_ComDefs.yaml#/components/schemas/Dn'

 MDAOutputEntry:

 type: object

 properties:

 mDAOutputIEName:

 type: string

 mdaOutputIEValue: {}

 analyticsWindow:

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

 confidenceDegree:

 type: number

 format: float

 TimeWindow:

 type: object

 properties:

 startTime:

 $ref: 'TS28623\_ComDefs.yaml#/components/schemas/DateTime'

 endTime:

 $ref: 'TS28623\_ComDefs.yaml#/components/schemas/DateTime'

#-------- Definition of MDA Report --------------------------------------------

 MDAReport:

 allOf:

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

 - type: object

 properties:

 attributes:

 allOf:

 - type: object

 properties:

 mDAReportID:

 type: string

 mDAOutputs:

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

|  |
| --- |
| **End of Change** |