**3GPP TSG-SA5 Meeting #162 *S5-253892***

**Stor-Göteborg, Sweden, 25th Aug 2025 - 29th Aug 2025**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **28.623** | **CR** | **0560** | **rev** | **1** | **Current version:** | **19.4.0** |  |
|  | | | | | | | | |
| *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:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MADCOL\_Ph2 | | | | |  | ***Date:*** | | | 2025-08-07 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The following management capabilities related to data management are defined in R19:  - MgmtData Registry and Discovery  - External Data Discovery and Request  However, they are missing in the enum value for attribute “mnsCapability” in MnSInfo IOC. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add enum values to represent above two management capabilities for the for attribute “mnsCapability” in MnSInfo IOC. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The enum values for above two management capabilities are missing for the attribute “mnsCapability” in MnSInfo IOC. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | Following YAML files normatively defined in the forge are updated:  - OpenAPI/TS28623\_MnSRegistryNrm.yaml | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 28.622 CR 0579 | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | Forge MR link: <https://forge.3gpp.org/rep/sa5/MnS/-/merge_requests/1816> at commit 9a011ed64e4dfc6c907f2e81f5790c2708c3462d | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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| **1st Change** |

Forge MR link: <https://forge.3gpp.org/rep/sa5/MnS/-/merge_requests/1816> at commit 9a011ed64e4dfc6c907f2e81f5790c2708c3462d

\*\*\* START OF CHANGE 1 \*\*\*

\*\*\* OpenAPI/TS28623\_MnSRegistryNrm.yaml \*\*\*

<CODE BEGINS>

openapi: 3.0.1

info:

title: MnS Registry NRM

version: 19.4.0

description: >-

OAS 3.0.1 definition of the MnS Registry NRM fragment

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externalDocs:

description: 3GPP TS 28.623; Generic NRM, MnS Registry NRM

url: http://www.3gpp.org/ftp/Specs/archive/28\_series/28.623/

paths: {}

components:

schemas:

#-------- Definition of types for name-containments ------

SubNetwork-ncO-MnSRegistryNrm:

type: object

properties:

MnsRegistry:

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

#-------Definition of generic IOCs ----------#

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

MnsCapability:

type: string

enum:

- NR\_PROVISIONING

- 5GC\_PROVISIONING

- NETWORK\_SLICING\_PROVISIONING

- EDGE\_COMPUTING\_PROVISIONING

- PERFORMANCE\_METRIC\_COLLECTION\_CONTROL

- PERFORMANCE\_METRIC\_DATA\_REPORT

- PERFORMANCE\_METRIC\_THRESHOLD\_MONITOR\_CONTROL

- PERFORMANCE\_METRIC\_THRESHOLD\_NOTIFICATION

- FAULT\_CONTROL

- FAULT\_NOTIFICATION

- TRACE\_MDT\_DATA\_COLLECTION\_CONTROL

- TRACE\_MDT\_DATA\_REPORT

- QOE\_DATA\_COLLECTION\_CONTROL

- QOE\_DATA\_REPORT

- FILE\_RETRIEVAL

- FILE\_DOWNLOAD

- SUBSCRIPTION\_CONTROL

- HEARTBEAT\_CONTROL

- HEARTBEAT\_NOTIFICATION

- ML\_MODEL\_MANAGEMENT

- MANAGEMENT\_DATA\_ANALYTIC

- RANSC\_MANAGEMENT

- SON\_POLICY

- COMMUNICATION\_SERVICE\_ASSURANCE\_CONTROL

- INTENT\_DRIVEN\_MANAGEMENT

- ML\_MODEL\_MANAGEMENT

- MNS\_REGISTRY\_AND\_DISCOVERY

- MGMTDATA\_REGISTRY\_AND\_DISCOVERY

- MNS\_ACCESS\_CONTROL\_MANAGEMENT

- DSO\_RAPID\_RECOVERY\_AND\_THRESHOLD\_MONITORING

- EXTERNALDATA\_DISCOVERY\_AND\_REQUEST

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

MnsRegistry-Single:

allOf:

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

- type: object

properties:

MnsInfo:

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

MgmtDataInfo:

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

MnsInfo-Single:

allOf:

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

- type: object

properties:

mnsLabel:

type: string

mnsType:

type: string

enum:

- PROV\_MNS

- FAULT\_SUPERVISION\_MNS

- STREAMING\_DATA\_REPORTING\_MNS

- FILE\_DATA\_REPORTING\_MNS

mnsVersion:

type: string

mnsAddress:

description: Resource URI as defined in the relevant Technical Specification

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

mnsCapability:

description: >-

It describes the types of management capabilities of the MnS instance provided by the MnS producer.

type: array

uniqueItems: true

items:

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

mnsScope:

description: >-

It is used to provide information about the management scope of the Management Service. The management scope is

used to represent the set of managed object instances that can be accessed using the Management Service.

type: array

uniqueItems: true

items:

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

minItems: 1

mgmtDataInfoRef:

description: >-

List of DN of MgmtDataInfo instance(s) which are associated the MnSInfo which represent a

management service instance

type: array

items:

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

uniqueItems: true

minItems: 1

MnsScope:

description: ->

It defines the information about the management scope of the Management Service.

oneOf:

- type: array

uniqueItems: true

items:

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

- type: array

uniqueItems: true

items:

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

- type: array

uniqueItems: true

items:

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

MgmtDataInfo-Single:

allOf:

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

- type: object

properties:

supportedManagementData:

description: >-

It defines the list of management data that can be supported.

type: array

uniqueItems: true

items:

$ref: 'TS28623\_ManagementDataCollectionNrm.yaml#/components/schemas/ManagementData'

supportedGranularityPeriods:

description: >-

Granularity periods supported for the production of associated management data.

The period is defined in seconds.

type: array

items:

type: integer

uniqueItems: true

supportedReportingPeriods:

description: >-

Reporting periods supported for the associated management data.

The period is defined in seconds.

type: array

items:

type: integer

uniqueItems: true

historicalDataPeriod:

description: >-

This attribute describes the maximum period of the requested

historical data.

The period is defined in seconds.

When the value of this attribute is NULL, which means the

capability of querying historical data is not supported.

type: integer

supportedReportingMethod:

description: >-

List of supported reporting methods for the associated

management data.

type: array

uniqueItems: true

items:

type: string

enum:

- FILE

- STREAM

minItems: 1

supportedDataScope:

description: >-

List of supported sub counter capabilities for the associated management data.

type: array

uniqueItems: true

items:

type: string

enum:

- SNSSAI

- 5QI

- PLMN

minItems: 1

supportedDataRequestMnSRef:

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

supportedDataReportingMnSRef:

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

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

MnsInfo-Multiple:

type: array

items:

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

MgmtDataInfo-Multiple:

type: array

items:

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

#-------- Definitions in TS 28.623 for TS 28.532 ---------------------------------

resources-mnSRegistryNrm:

oneOf:

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

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

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

<CODE ENDS>

\*\*\* END OF CHANGE 1 \*\*\*

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| **End of Changes** |