**3GPP TSG- Meeting #**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
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|  |  | **CR** |  | **rev** | **1** | **Current version:** |  |  |
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| *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:***  |  |
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| ***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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***Reason for change:*** | In Table F-1, only NRM fragment for ML training is included for AIML Management, however, following NRM fragments which defined in R18 are missing:* NRM fragment for ML model testing
* NRM fragment for AI/ML inference emulation control
* NRM fragment for ML model loading
* NRM fragment for ML update
* NRM fragment for AI/ML inference function
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| ***Summary of change:*** | Add missing NRM fragments for AIML Management in Table F-1 |
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| ***Consequences if not approved:*** | Incomplete NRM fragements for AIML Management |
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| ***Clauses affected:*** | Annex F |
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|  | **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 ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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| **1st Change** |

Annex F (informative):
Usage of CRUD operations and NRM fragments to support management capabilities in SBMA

The model driven approach (i.e. usage of CRUD operations specified in TS 28.532 [9] and NRM fragments) can be used to support various types of management capabilities in SBMA. Following is the overview of MnS usage for different types of management capabilities implemented by CRUD operations and an NRM fragment.

Table F-1: Overview of MnS usage label for different types of management capabilities implemented by CRUD operations and an NRM fragment

| Supported MnS Components | Usage  |
| --- | --- |
| MnS Component type A | MnS Component type B |
| CRUD operations | Generic NRM (3GPP TS 28.622 [32]) (e.g. SubNetwork, ManagedElement IOC) | Common Management  |
| CRUD operations  | NRM fragment for NR (3GPP TS 28.541 [4]) | NR Provisioning  |
| CRUD operations  | NRM fragment for 5GC (3GPP TS 28.541 [4]) | 5GC Provisioning  |
| CRUD operations  | NRM fragment for Network Slice (3GPP TS 28.541 [4]) | Network Slice Provisioning  |
| CRUD operations  | PM control NRM fragment (3GPP TS 28.622 [32]) | Performance Metric Collection Control |
| CRUD operations  | Threshold monitoring control NRM fragment (3GPP TS 28.622 [32]) | Performance Threshold Monitoring  |
| CRUD operations  | Trace control NRM fragment (3GPP TS 28.622 [32]) | Trace control |
| CRUD operations  | QoE Measurement Collection control NRM fragment (3GPP TS 28.622 [32]) | QoE control |
| CRUD operations  | FM control NRM fragment (3GPP TS 28.111 [68]) | Fault Management |
| CRUD operations  | File retrieval NRM fragment (3GPP TS 28.622 [32]) | File Retrieval  |
| CRUD operations  | File download NRM fragment (3GPP TS 28.622 [32]) | File Download  |
| CRUD operations  | Notification subscription control NRM fragment (3GPP TS 28.622 [32]) | Subscription  |
| CRUD operations  | Heartbeat notification control NRM fragment (3GPP TS 28.622 [32])  | Heartbeat  |
| CRUD operations  | NRM fragment for ML training NRM fragment for ML model testingNRM fragment for AI/ML inference emulation controlNRM fragment for ML model loadingNRM fragment for ML updateNRM fragment for AI/ML inference function(3GPP TS 28.105 [66]) | AI/ML Management  |
| CRUD operations  | NRM fragment for MDA request and MDA report (3GPP TS 28.104 [57]) | MDA  |
| CRUD operations  | NRM fragment for DANR Management (3GPP TS 28.541 [4])NRM fragment for DES Management (3GPP TS 28.541 [4])NRM fragment for DRACH Management (3GPP TS 28.541 [4])NRM fragment for DMRO Management (3GPP TS 28.541 [4])NRM fragment for DPCI Management (3GPP TS 28.541 [4])NRM fragment for CES Management (3GPP TS 28.541 [4])NRM fragment for CPCI Management (3GPP S 28.541 [4])NRM fragment for DLBO Management (3GPP TS 28.541 [4])NRM fragment for CCO Management (3GPP TS 28.541 [4]) | SON Policy  |
| CRUD operations | RANSC NRM Fragment (3GPP TS 28.317 [67]) | RANSC Management |
| CRUD operations  | NRM fragment for intent (3GPP TS 28.312 [46]) | Intent Driven Management |
| CRUD operations  | Edge NRM Fragment (3GPP TS 28.538 [40]) | Edge Computing Provisioning |
| CRUD operations  | ManagementDataCollection control NRM fragment (3GPP TS 28.622 [23]) | ManagementDataCollection  |
| CRUD operations  | MnS Registry NRM fragment (3GPP TS 28.622 [32]) | MnS Registry and Discovery |
| CRUD operations  | Assurance management NRM fragment (3GPP TS 28.536 [38]) | Communication Service Assurance |
| CRUD operations | DSO Rapid Recovery NRM fragment (3GPP TS 28.318 [69])DSO Threshold Monitoring NRM fragment (3GPP TS 28.318 [69]) | NSOEU |
| CRUD operations |  NRM fragement for role based access control NRM fragment (3GPP TS 28.319 [70]) | MSAC Management |

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| **End of Changes** |