**3GPP TSG-SA5 Meeting #130e *S5-203181***

**e-meeting 20-28 April 2020**

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| *CR-Form-v11.4* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **28.545** | **CR** | **0005** | **rev** | **1** | **Current version:** | **15.1.0** |  |
|  | | | | | | | | |
| *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:*** | Add description for MnS components used for configurable FM control | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | eNRM | | | | |  | ***Date:*** | | | 2020-05-12 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
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| ***Reason for change:*** | | The FM control NRM fragment is introduced in TS 28.622 which can be used together with CRUD operations defined in TS 28.532 for FM control purpose. However, the description of which MnS components can be used for configurable FM control is missing. | | | | | | | | |
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| ***Summary of change:*** | | Add description for which MnS components can be used for configurable FM control | | | | | | | | |
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| ***Consequences if not approved:*** | | The description of configurable FM control feature is missing in TS 28.545. | | | | | | | | |
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| ***Clauses affected:*** | | 2, 6.X(new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

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| ***This CR's revision history:*** |  |

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| **1st Change** |

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] 3GPP TS 28.532: "Management and orchestration; Management services".

[3] 3GPP TS 28.541: "Management and orchestration; 5G Network Resource Model (NRM); Stage 2 and stage 3".

[X] 3GPP TS 28.622: "Telecommunication management; Generic Network Resource Model (NRM) Integration Reference Point (IRP); Information Service (IS)".

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| **2nd Change** |

## 6.X Management Service components used for configurable FM control

The MnS components used for configurable FM control are listed in table 6.X-1. The configurable FM control approach and fault supervision management service described in clause 6.1 - 6.3 are two alternative solutions used for fault management.

Table 6.X-1: MnS component used for configurable FM control

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| Management purpose | Management service component type A | Management service component type B |
| Configurable FM control for NE/NF | Following operations/notifications defined in Clause 11.1.1 in TS 28.532[7]:  Operations:  - createMOI  - getMOIAttributes  - modifyMOIAttributes  - deleteMOI  Notifications:  - notifyMOICreation  - notifyMOIAttributeValueChanges  - notifyMOIDeletion  - notifyMOIChanges | Following IOCs defined in FM control NRM fragment in TS 28.622 [5] :   * FMControl * AlarmList * ManagedElement |
| Configurable FM control for NetworkSlice | Following operations/notifications defined in Clause 11.1.1 in TS 28.532[7]:  Operations:  - createMOI  - getMOIAttributes  - modifyMOIAttributes  - deleteMOI  Notifications:  - notifyMOICreation  - notifyMOIAttributeValueChanges  - notifyMOIDeletion  - notifyMOIChanges | Following IOCs defined in FM control NRM fragment in TS 28.622 [5] / TS 28.541[3]:   * FMControl * AlarmList * NetworkSlice |
| Configurable FM control for NetworkSliceSubnet | Following operations/notifications defined in Clause 11.1.1 in TS 28.532[7]:  Operations:  - createMOI  - getMOIAttributes  - modifyMOIAttributes  - deleteMOI  Notifications:  - notifyMOICreation  - notifyMOIAttributeValueChanges  - notifyMOIDeletion  - notifyMOIChanges | Following IOCs defined in FM control NRM fragment in TS 28.622 [5] / TS 28.541[3]:   * FMControl * AlarmList * NetworkSliceSubnet |
| Configurable FM control for SubNetwork | Following operations/notifications defined in Clause 11.1.1 in TS 28.532[7]:  Operations:  - createMOI  - getMOIAttributes  - modifyMOIAttributes  - deleteMOI  Notifications:  - notifyMOICreation  - notifyMOIAttributeValueChanges  - notifyMOIDeletion  - notifyMOIChanges | Following IOCs defined in FM control NRM fragment in TS 28.622 [5] :   * FMControl * AlarmList * SubNetwork |

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| **End of Change** |