**3GPP TSG-SA5 Meeting #162 *S5-253983***

Goteborg, Sweden, 25 - 29 August 2025

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** | **0047** | **rev** | **1** | **Current version:** |  |  |
|  | | | | | | | | |
| *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-19 CR TS 28.540 add missing feature concepts and requirements | | | | | | | | | |
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| ***Source to WG:*** | Huawei, CATT | | | | | | | | | |
| ***Source to TSG:*** | SA5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI19 | | | | |  | ***Date:*** | | | 2025-08-15 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **C** |  | | | | | ***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)* | |
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| ***Reason for change:*** | | In TS 28.541, the NRM fragment to support Prose and SON function management has been already defined. However, there is no corresponding requirements description in the current TS 28.540 specification. | | | | | | | | |
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| ***Summary of change:*** | | Add missing Prose, SON function management requirements. | | | | | | | | |
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| ***Consequences if not approved:*** | | The use case and requirements for Prose and SON function management will not clear. | | | | | | | | |
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| ***Clauses affected:*** | | 2, 5.1, 5.3 | | | | | | | | |
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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 ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***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 23.501: "System Architecture for the 5G System".

[3] 3GPP TS 38.300: "NR; Overall description; Stage-2".

[4] 3GPP TS 38.401: "NG-RAN; Architecture description".

[5] 3GPP TS 37.340: "NR; Multi-connectivity; Overall description; Stage 2".

[6] 3GPP TS 28.531: "Management and orchestration of 5G networks; Provisioning".

[7] 3GPP TS 23.502: "Procedures for the 5G System; Stage 2".

[8] GSMA NG.116 – "Generic Network Slice Template" v1.0 (2019-05-23).

[9] 3GPP TS 28.533: "Management and orchestration; Architecture framework".

[10] 3GPP TS 38.331: "NR; Radio Resource Control (RRC); Protocol specification".

[11] 3GPP TS 23.369: " Ambient power-enabled Internet of Things; Stage 2".

[x1] 3GPP TS 23.304: "Proximity based Services (ProSe) in the 5G System (5GS)".

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| **Next Change** |

## 5.1 Requirements for management of NG-RAN

The following specific requirements apply to NG-RAN:

**REQ-NGRAN\_NRM-CON-001:** The NRM definitions shall support management of NG-RAN, containing gNB or/and ng-eNB.

**REQ-NGRAN\_NRM-CON-002:** The NRM definitions shall support management of either gNB without split function or gNB with split functions defined in 3GPP TS 38.401 [4].

**REQ-NGRAN\_NRM-CON-003:** The NRM definitions shall support management of virtualized network functions that are part of gNB, e.g. virtualized gNB-CU.

**REQ-NGRAN\_NRM-CON-004:** The NRM definitions shall support management of intra-NG-RAN handover between any combinations of gNB and ng-eNB.

**REQ-NGRAN\_NRM-CON-005:** The NRM definitions shall support management of inter-system handover between 5GS and EPS.

**REQ-NGRAN\_NRM-CON-006:** The NRM definitions shall support management of network slicing feature in NG-RAN.

**REQ-NGRAN\_NRM-CON-007:** The NRM definitions shall have a read-only representation of NR beam properties in NG-RAN.

**REQ-NGRAN\_NRM-CON-008:** The NRM definitions shall support configuration of sector carrier coverage properties in NG-RAN.

**REQ-NGRAN\_NRM-CON-009:** The NRM definitions shall support management of radio access network sharing feature in NG-RAN.

**REQ-NGRAN\_NRM-CON-00x:** The NRM definitions shall support management of self optimization network feature in NG-RAN.

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| **Next Change** |

## 5.3 Requirements for management of 5GC NFs

The following specific requirements apply to management of 5GC NFs:

**REQ-5GC\_NRM-CON-001:** The NRM definitions shall support management of 5GC containing variety of network functions defined in 3GPP TS 23.501 [2].

**REQ-5GC\_NRM-CON-002:** The NRM definitions should support management of all the relationships between network functions and corresponding data storage functions where the network functions store/retrieve their data.

**REQ-5GC\_NRM-CON-003:** The NRM definitions shall support management of interworking between 5GC and EPC.

**REQ-5GC\_NRM-CON-004:** The NRM definitions shall support management of network slicing feature in 5GC.

**REQ-5GC\_NRM-CON-005:** The NRM definitions shall support management of 5GC network function services independently to align with requirements of 3GPP TS 23.501 [2].

**REQ-5GC\_NRM-CON-006:** The NRM definitions shall support NF service instance registration, deregistration, update, etc., with NRF during NF service instance lifecycle to align with requirements of 3GPP TS 23.501 [2] and 3GPP TS 23.502 [7].

**REQ-5GC\_NRM-CON-007:** The NRM definitions shall support configuration of NF profile for NF Service registration and discovery to align with requirements of 3GPP TS 23.501 [2] and 3GPP TS 23.502 [7].

**REQ-5GC\_NRM-CON-00x:** The NRM definitions should support 5G ProSe Direct Discovery and Communication to align with requirements of 3GPP TS 23.304 [x1].

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| **End of changes** |