**3GPP TSG-SA5 Meeting #162 *S5-253914***

Goteborg, Sweden, 25 - 29 August 2025

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **0048** | **rev** | **1** | **Current version:** | **19.1.0** |  |
|  | | | | | | | | |
| *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 |  |

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|  | | | | | | | | | | |
| ***Title:*** | Management of IAB-node | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | SA5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_MOBILE\_IAB\_OAM | | | | |  | ***Date:*** | | | 2025-08-15 |
|  |  | | | |  | |  | | |  |
| ***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)* | |
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| ***Reason for change:*** | | This is nomative work for Rel-19 study on management of IAB nodes | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add a clause of mangement of IAB-node  Add requirements for management of IAB-node | | | | | | | | |
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| ***Consequences if not approved:*** | | Missing NRM requirements to support IAB-node management | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 2,3.1,3.2, 4.x(new), 5.2.x (new) | | | | | | | | |
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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".

[x] 3GPP TS 28.314: “Management and orchestration; Plug and Connect; Concepts and requirements”.

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| **2nd Change** |

## 3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

**5G Core Network:** Defined in 3GPP TS 23.501 [2].

**AMF Region:** Defined in 3GPP TS 23.501 [2].

**AMF Set:** Defined in 3GPP TS 23.501 [2].

**en-gNB:** Defined in 3GPP TS 37.340 [5].

**gNB:** Defined in 3GPP TS 38.300 [3].

**gNB Central Unit (gNB-CU):** Defined in 3GPP TS 38.401 [4].

**gNB-CU-Control Plane (gNB-CU-CP):** Defined in 3GPP TS 38.401 [4].

**gNB-CU-User Plane (gNB-CU-UP):** Defined in 3GPP TS 38.401 [4].

**gNB Distributed Unit (gNB-DU):** Defined in 3GPP TS 38.401 [4].

**ng-eNB:** Defined in 3GPP TS 38.300 [3].

**NG-RAN:**Defined in 3GPP TS 23.501 [2].

**RedCap UE:** defined in 3GPP TS 38.331 [10].

**eRedCap UE:** defined in 3GPP TS 38.331 [10].

AIoT: defined in 3GPP TS 23.369 [11]

AIOTF: defined in 3GPP TS 23.369 [11]

ADM: defined in 3GPP TS 23.369 [11]

**IAB-node**: as defined in TS 38.401 [4].

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| **3rd Change** |

## 3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

5GC 5G Core network

5GS 5G System

AMF Access and Mobility Management Function

EN-DC E-UTRA-NR Dual Connectivity

EPS Evolved Packet System

MR-DC Multi-Radio Dual Connectivity

NG-RAN NG Radio Access Network

NR New Radio

PCF Policy Control Function

UDM Unified Data Management

UDR Unified Data Repository

UDSF Unstructured Data Storage Function

AIOTF Ambient IoT Function

ADM AIoT Data Management

IAB Integrated Access and Backhaul

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| **4th Change** |

## 4.x Management of IAB-node

IAB architecture is specified in 3GPP TS 38.401 [4]. The management of IAB-node includes the IAB-node connectivity to management system as specified in TS 28.314 [x] and IAB-node configuration as specified in TS 28.531 [6].

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| **5th Change** |

### 5.2.x Requirements for management of IAB-node

REQ\_IAB\_NRM\_1: The NR NRM definitions should support location information of IAB-node.

REQ\_IAB\_NRM\_2: The NR NRM definitions should support IP configuration for IAB-node OAM connectivity.

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| **End of change** |