**3GPP TSG-RAN3 Meeting #125bisR3-24xxxx**

**Hefei, China, October 14 – 18, 2024**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **38.300** | **CR** |  **-** | **rev** | **-** | **Current version:** | **18.3.0** |  |
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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 | **x** | Radio Access Network | **X** | Core Network |  |

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| ***Title:***  | ’’Support for Wireless Access and Backhaul |
|  |  |
| ***Source to WG:*** | Qualcomm, Ericsson, CATT, ZTE, Nokia, Nokia Shanghai Bell |
| ***Source to TSG:*** | R3 |
|  |  |
| ***Work item code:*** | NR\_WAB\_5GFemto |  | ***Date:*** | 2024-10-16 |
|  |  |  |  |  |
| ***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 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:*** | Support for Wireless Access and Backhaul (WAB) |
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| ***Summary of change:*** | Clause 3.1: Add WAB abbreviation.Clause 3.2: Define WAB related terms.Clause 4.X: Add WAB functionality. |
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| ***Consequences if not approved:*** | No RAN support for Wireless Access and Backhaul.  |
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| ***Clauses affected:*** | 3.1, 3.2, 4.x (new), 4.x.1 (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 ...  |
|  |  |
| ***Other comments:*** | - |

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

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| *--- Begin of Changes ---* |

# 3 Abbreviations and Definitions

## 3.1 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1], in TS 36.300 [2] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [1] and TS 36.300 [2].

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WAB Wireless Access and Backhaul

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## 3.2 Definitions

For the purposes of the present document, the terms and definitions given in TR 21.905 [1], in TS 36.300 [2] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in TR 21.905 [1] and TS 36.300 [2].

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**WAB-gNB**: The gNB function of the WAB-node that terminates the NR access interface to UEs and terminates the NG protocol to the 5GC, as defined in TS 23.501 [3]. The WAB-gNB function used in 38-series of 3GPP Specifications corresponds to the MWAB-gNB function defined in TS 23.501 [3].

**WAB-MT**: The function that terminates the Uu interface to the BH-RAN node using the procedures and behaviours specified for UEs unless stated otherwise. The WAB-MT function used in the 38-series of 3GPP specifications corresponds to the MWAB-UE function defined in TS 23.501 [3].

**WAB-node**: An NG-RAN node that supports NR Uu access links to UEs and NR Uu interface to a stationary RAN node.

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## 4.X Wireless Access and Backhaul

### 4.X.1 General

Wireless Access and Backhaul (WAB) introduces the WAB-node, which provides NR access links to UEs via a gNB functionality, referred to as the WAB-gNB. The WAB-node supports physical mobility across the RAN area. The WAB-node further supports a UE functionality, referred to as the WAB-MT, which terminates an NR Uu interface to a stationary RAN node that is used for the backhauling of the WAB-gNB’s traffic.

The WAB architecture, the integration of the WAB-node into the stationary RAN node used for backhauling, and the WAB-node’s mobility is defined in TS 23.501 [3] and TS 38.401 [4].

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| *--- End of Changes ---* |