**3GPP TSG-RAN WG2 Meeting #131 *R2-250xxxx***

**Bengaluru, India, 25 - 29 Aug, 2025**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **37.320** | **CR** | **0143** | **rev** | **1** | **Current version:** | **18.4.0** |  |
|  |
| *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 | **X** | Radio Access Network | **X** | Core Network |  |

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| ***Title:***  | Introduction of AI for Air interface feature in TS 37.320 |
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| ***Source to WG:*** | Huawei, HiSilicon, Ericsson, Nokia |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | NR\_AIML\_air-Core |  | ***Date:*** | 2025-09-05 |
|  |  |  |  |  |
| ***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:*** | Introduction of AI/ML for NR Air interface feature in Rel-19. |
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| ***Summary of change:*** | A new caluse is introduced on the use of immediate MDT for network data collection for offline model training for AI/ML-based Beam Management. |
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| ***Consequences if not approved:*** | Stage 2 specification TS 37.320 does not include the AI/ML for NR Air interface feature in Rel-19. |
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| ***Clauses affected:*** | 5.4.1.x (New) |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 38.300 CR1006TS 38.331 CR5437 |
| ***affected:*** |  | **X** |  Test specifications |  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications |  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

#### 5.4.1.x Support of network data collection

For beam prediction, the management based immediate MDT can be used for data collection. As specified in TS 38.300 [22], the measurement framework is applied between UE and NG-RAN. Measurement reports include:

⁻ Cell identity: CGI or PCI of the cell to which the measurement results are related to.

⁻ Logged L1 radio measurement results: include the beam identifiers associated to CSI-RS resources or SSBs (CSI-RS IDs or SSB IDs) and the corresponding measured L1-RSRPs.

- Presence of a gap that is longer than the configured logging periodicity in the logged measurements.

For a UE in NR-DC, the configuration and reporting for data collection can only be performed via the MN, and SN is excluded from the configuration and reporting for data collection.