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

 **Prague, CZ, 13th – 17th Oct, 2025**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **38.306** | **CR** | **-** | **rev** | **-** | **Current version:** | **19.0.0** |  |
|  |
| *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:***  | Corrections on AI air UE capability |
|  |  |
| ***Source to WG:*** | Xiaomi, OPPO |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | NR\_AIML\_air-Core |  | ***Date:*** | 2025-10-03 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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)* |
|  |  |
| ***Reason for change:*** | Corrections of AI/ML for NR Air interface features in Rel-19 in the following aspects:* some terminologies (e.g., inference related configuration, buffer) are not aligned with other specifications
* details of signalling for applicability reporting and updates is not necessary in capability definition, which can be referred to TS 38.331.
* Usage of memory in *loggedDataCollection-r19*is not clear
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|  |  |
| ***Summary of change:*** | 1. Use ‘inference related paramters configuration’ instead of ‘inference related configuration’, to align with TS 38.300;
2. Use ‘memory’ instead of ‘buffer’, to align with TS 38.300 and TS 38.331
3. Remove stage-3 signalling in *applicabilityReportingCSI-r19* and *applicabilityReportingOther-r19*
4. Add ‘for storing’ in field description of *loggedDataCollection-r19 t*o avoid unclear definition.
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| ***Consequences if not approved:*** | Corrections of AI/ML for NR Air interface feature definition will not be captured. |
|  |  |
| ***Clauses affected:*** | 4.25 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS38.300 CR …TS38.321 CR …TS38.331 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:*** |  |

*START OF CHANGES*

# 4 UE radio access capability parameters

## 4.2 UE Capability Parameters

<Omitted unrelated text>

### 4.2.25 AI/ML Parameters

| Definitions for parameters | Per | M | FDD-TDD DIFF | FR1-FR2 DIFF |
| --- | --- | --- | --- | --- |
| ***applicabilityReportingCSI-r19***Indicates whether the UE supports applicability reporting and/or its updates based on inference configuration provided via *CSI-ReportConfig*, as specified in TS 38.331 [9]. It is mandatory if UE supports at least one of *aiml-BM-Case1-r19*, *aiml-BM-Case2-r19* and *aiml-CSI-Prediction-r19, aiml-CSI-PredictionPerBC-r19*. | UE | CY | No | No |
| ***applicabilityReportingOther-r19***Indicates whether the UE supports applicability reporting and/or its updates based on inference related parameters configuration provided via *OtherConfig*, as specified in TS 38.331 [9].It is mandatory if UE supports at least one of *aiml-BM-Case1-r19* and *aiml-BM-Case2-r19*. | UE | CY | No | No |
| ***dataThresholdAvailabilityIndication-r19***Indicates whether the UE supports triggering data availability indication via *UEAssistanceInformation* message when the amount of logged data for network-side data collection reaches a configured threshold.A UE supporting this feature shall also indicate support of *loggedDataCollection-r19*. | UE | No | No | No |
| ***eventBasedLoggedDataCollection-r19***Indicates whether the UE supports L3 measurement event-triggered logging of measurements for network-side data collection, as specified in TS 38.331 [9].A UE supporting this feature shall also indicate support of *loggedDataCollection-r19* and *dataThresholdAvailabilityIndication-r19*. | UE | No | No | No |
| ***loggedDataCollection-r19***Indicates whether the UE supports logged measurements for network-side data collection, as specified in TS 38.331 [9]. The UE supporting this feature also supports periodical logging and providing full memory indication and low power indication via *UEAssistanceInformation* message.The minimum memory size for storing of logged measurement of network-side data collection is 64kB. | UE | No | No | No |

*END OF CHANGES*

# Annex: RAN2 UE capability feature list

According to the following agreements made in RAN2#129bis (R2-2502767), RAN2 determined UE capabilities in the feature list format for TR 38.822 is included.

The 306 CRs shall include an annex containing the RAN2 determined UE capabilities in the feature list format (similar to annex containing RAN2 agreements), for easy compilation into the TR38.822 in the later stage (as agreed in RAN2 #116-e). The annex of RAN2 determined UE capabilities feature list should align with field description.

### 8.2.x NR\_AIML\_air-Core

Table 8.2.x-1: Layer-2 and Layer-3 feature list for NR\_AIML\_air-Core

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Features | Index | Feature group | Components | Prerequisite feature groups | Field name in TS 38.331 [2] | Parent IE in TS 38.331 [2] | Need of FDD/TDD differentiation | Need of FR1/FR2 differentiation | Note | Mandatory/Optional |
| X. NR\_AIML\_air-Core | x-1 | Applicability reporting | Indicates whether the UE supports applicability reporting and/or its updates based on inference configuration provided via *CSI-ReportConfig*, as specified in TS 38.331 [9]. It is mandatory if UE supports at least one of *aiml-BM-Case1-r19*, *aiml-BM-Case2-r19* and *aiml-CSI-Prediction-r19*. | at least one of RAN1 FG 58-1-2, 58-1-4, 58-3-1 | *applicabilityReportingCSI-r19* | *AIML-Parameters* | No | No |  | Conditional mandatory with capability signalling |
| Indicates whether the UE supports applicability reporting and/or its updates based on inference related parameters configuration provided via *OtherConfig*, as specified in TS 38.331 [9]. It is mandatory if UE supports at least one of *aiml-BM-Case1-r19* and *aiml-BM-Case2-r19*. | at least one of RAN1 FG 58-1-2, 58-1-4 | *applicabilityReportingOther-r19* | *AIML-Parameters* | No | No |  | Conditional mandatory with capability signalling |
| x-2 | network-side data collection | Indicates whether the UE supports logged measurements for network-side data collection, as specified in TS 38.331 [9]. The UE supporting this feature also supports periodical logging and providing full memory indication and low power indication via *UEAssistanceInformation* message.The minimum memory size of storing logged measurement of network-side data collection is 64kB. |  | *loggedDataCollection-r19* | *AIML-Parameters* | No | No |  | optional with capability signalling |
| Indicates whether the UE supports L3 measurement event-triggered logging of measurements for network-side data collection, as specified in TS 38.331 [9].A UE supporting this feature shall also indicate support of *loggedDataCollection-r19* and *dataThresholdAvailabilityIndication-r19*. | x-2, x-4 | *eventBasedLoggedDataCollection-r19* | *AIML-Parameters* | No | No |  | optional with capability signalling |
| Indicates whether the UE supports triggering data availability indication via *UEAssistanceInformation* message when the amount of logged data for network-side data collection reaches a configured threshold.A UE supporting this feature shall also indicate support of *loggedDataCollection-r19*. | x-2 | *dataThresholdAvailabilityIndication-r19* | *AIML-Parameters* | No | No |  | optional with capability signalling |