**3GPP TSG-RAN WG2 Meeting #126R2-24xxxxx**

**Fukuoka, Japan, May 20 - 24, 2024**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **37.340** | **CR** | **XXXX** | **rev** | **-** | **Current version:** | **18.1.0** |  |
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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:***  | Corrections to TS 37.340 on collection of RA reports |
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| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | R2 |
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| ***Work item code:*** | NR\_ENDC\_SON\_MDT\_enh2-Core |  | ***Date:*** | 2024-05-22 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-18 |
|  | *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-16 (Release 16)Rel-17 (Release 17) Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***Reason for change:*** | In the latest TS 36.331, the new IE *rach-ReportListNR* has been defined, and the UE can send it LTE NW. And the spec does not limit the UE behaviours on collecting NR RACH report, e.g. it may collect the NR RACH reports in SA NR or DC. And then, RAN2#126 has agreed the following:* In TS 37.340, remove the following sentence: A UE while being in EN-DC and NGEN-DC can collect E-UTRA RA Reports and NR RA Reports upon performing RACH in MN and SN respectively.

The agreement needs to be captured in TS 37.340. |
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| ***Summary of change:*** | In section 10.18.5, the following sentence is removed:A UE while being in EN-DC and NGEN-DC can collect E-UTRA RA Reports and NR RA Reports upon performing RACH in MN and SN respectively. |
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| ***Consequences if not approved:*** | For collection of RA reports, there is a misalignment between TS 36.331 and TS 37.340. |
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| ***Clauses affected:*** | 10.18.5 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  |  |
| ***affected:*** |  | **X** |  Test specifications |  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications |  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

### 10.18.5 RA Report retrieval

In MR-DC, when a UE performs successful random access attempts which are only known by the SN (e.g., beam failure recovery, UL synchronization issue, scheduling request failure, no PUCCH resource available), the SN may inform the MN about the occurrences of successful random access procedures in the SN via a RACH indication. The MN may then retrieve the RA Report from the UE(s) based on the RACH indication received from the SN.

When a E-UTRAN node retrieves the E-UTRA RA Report, it can also request UE to include the NR RA Report(s). If available, the UE then includes the NR RA Report(s) in a container along with a list of PSCells associated to the NR RA Report(s) within the E-UTRA RA Report. The retrieving E-UTRAN node may then forward the NR RA Report(s) to the corresponding SNs serving the indicated PSCells.

In case of NGEN-DC, in case there is no Xn connectivity between the ng-eNB retrieving the NR RA Report from the UE and the gNB serving the PSCells indicated by UE in the NR RA Report, the ng-eNB may forward the NR RA Report via Xn to an ng-eNB connected to a gNB serving the PSCells indicated in the RA Report.

In case of EN-DC, in case there is no X2 connectivity between the eNB retrieving the NR RA Report from the UE and the en-gNB serving the PSCells indicated by UE in the NR RA Report, the eNB may forward the NR RA Report via X2 to an eNB connected to an en-gNB serving the PSCells indicated in the RA Report.