**3GPP TSG-RAN WG3 #119 R3-230934**

**27th Feb – 3rd Mar 2023**

**Athens, Greece**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.413** | **CR** | **0929** | **rev** | **1** | **Current version:** | **17.3.0** |  |
|  | | | | | | | | |
| *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 | **x** |

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| ***Title:*** | Correction on the UE identity index to TS38.413 | | | | | | | | | |
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| ***Source to WG:*** | ZTE, Nokia, Nokia Shanghai Bell, Ericsson, Huawei, CATT, Qualcomm Incorporated | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_redcap-Core, NR\_UE\_pow\_sav\_enh-Core | | | | |  | ***Date:*** | | | 2023-03-02 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In Rel-17, NR supports to configure eDRX for RedCap UE in RRC INACTIVE/IDLE. According to TS 38.304 spec, if eDRX is used to page UE, 12 bits of UE identity index is used for the PF and PO calculation.  Furthermore, As specified in TS 38.304, when the UE determines the UE-ID based subgrouping ID, it shall use 15bits if eDRX is applied, otherwise, 13bits of UE identity index.  However, only 10 bits UE Identity Index for NR is included in Core Network Assistance Information for RRC INACTIVE IE, it is not enough. | | | | | | | | |
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| ***Summary of change:*** | | Specify the existing Extended UE Identity Index Value IE (for eMTC) in Core Network Assistance Information for RRC INACTIVE IE can be reused for NR for eDRX and UE-ID based subgrouping paging.  Impact Analysis:  This change only impacts the RAN PF and PO calculation for RedCap UE, and the UE-ID based subgroup ID calculation.  This CR is BC. | | | | | | | | |
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| ***Consequences if not approved:*** | | The PO, PF, and the UE-ID based subgroup ID selected between UE and RAN may be different, and the RAN paging will fail | | | | | | | | |
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| ***Clauses affected:*** | | 9.3.3.52 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **Y** |  | Other core specifications | | | | TS 38.423 CR 0964  TS 38.473 CR 1114 | | |
| ***affected:*** | |  | **x** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | R3-230119 Fix WID code and support UE-ID based subgroup ID | | | | | | | | |

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#### 9.3.3.52 Extended UE Identity Index Value

This IE is used by the NG-RAN node to calculate the Paging Frame and Paging Occasion as specified in TS 36.304 [29], and the Paging Frame and Paging Occasion for eDRX or the UE\_ID based subgroup ID as specified in TS 38.304 [12].

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| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| Extended UE Identity Index Value | M |  | BIT STRING (SIZE(16)) |  |

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