**3GPP TSG-RAN WG3 Meeting #111-e *R3-211113***

**E-meeting, 25 Jan – 5 Feb 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **38.423** | **CR** | **0554** | **rev** |  | **Current version:** | **16.4.0** |  |
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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 |  | Radio Access Network | **X** | Core Network |  |

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| ***Title:*** | Clarification of Secondary RAT in mobility restrictions | | | | | | | | | |
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| ***Source to WG:*** | Huawei, China Telecom, Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | RAN3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI16, NR\_unlic-Core | | | | |  | ***Date:*** | | | 2021-01-15 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | The *Extended RAT Restriction Information* IE, introduced in CR0291, includes the *Secondary RAT Restriction* IE with the following semantics description:   * *A Secondary RAT is a RAT used in any cell serving the UE excluding the PCell*   It hints the secondary RAT restrictions apply to both SCell restrictions for CA and Secondary Node restrictions for DC.  This is true for e-UTRA-unlicensed and nR-unlicensed, when considering the unlicensed restrictions. However, this is ambuguious for e-UTRA and NR restrictions. | | | | | | | | |
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| ***Summary of change:*** | | Clarify the *Secondary RAT Restriction* IE is applicable only to the RATs other than the Primary RAT.    Impact Analysis:  Impact assessment towards the previous version of the specification (same release):  This CR has isolated impact with the previous version of the specification (same release).  The impact can be considered isolated because the change only affects the Extended RAT Restriction Information. | | | | | | | | |
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| ***Consequences if not approved:*** | | The usage of Secondary RAT Restriction is not clear. | | | | | | | | |
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| ***Clauses affected:*** | | 9.2.3.99 | | | | | | | | |
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|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS 38.413 CR0557 | | |
| ***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:*** | | Rev0: R3-210594  Rev1: R3-211113  Update based on online comments | | | | | | | | |

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| **Change Begins** |

#### 9.2.3.99 Extended RAT Restriction Information

This element provides RAT restrictions as specified in TS 23.501 [7].

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| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| Primary RAT Restriction | M |  | BIT STRING {  e-UTRA (0),  nR (1), nR-unlicensed (2)}  (SIZE(8, …)) | Each position in the bitmap represents a Primary RAT.  If a bit is set to "1", the respective RAT is restricted for the UE.  If a bit is set to "0", the respective RAT is not restricted for the UE.  Bits 3-7 reserved for future use.  The Primary RAT is the RAT used in the access cell, or target cell. |
| Secondary RAT Restriction | M |  | BIT STRING {  e-UTRA (0),  nR (1), e-UTRA-unlicensed (2), nR-unlicensed (3)}  (SIZE(8, …)) | Each position in the bitmap represents a Secondary RAT.  If a bit is set to "1", the respective RAT is restricted for the UE.  If a bit is set to "0", the respective RAT is not restricted for the UE.  Bits 4-7 reserved for future use.  A Secondary RAT is a RAT used in any cell serving the UE excluding the PCell. The *Secondary RAT Restriction* IE is applicable only to the RATs other than the Primary RAT. |

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| **Change Ends** |