**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** |
|  |
|  | **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 |
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| ***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 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-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 ...  |
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| ***Other comments:*** |  |
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| ***This CR's revision history:*** | Rev0: R3-210594Rev1: 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** |