**3GPP T****SG-RAN WG3 Meeting #121 R3-23xxxx**

**Toulouse, France, 21 – 25 Aug, 2023**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
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|  | **37.340** | **CR** |  | **rev** |  | **Current version:** | 17.5.0 |  |
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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:***  | Correction on mobility restriction list for MR-DC with 5GC |
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| ***Source to WG:*** | Huawei, Nokia, Nokia Shanghai Bell, Deutsche Telekom |
| ***Source to TSG:*** | R3 |
|  |  |
| ***Work item code:*** | NR\_newRAT-Core, TEI16 |  | ***Date:*** | 2023-08-21 |
|  |  |  |  |  |
| ***Category:*** | **A** |  | ***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 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)* |
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| ***Reason for change:*** | For MR-DC with 5GC, the MN may send the *Mobility Restriction List* IE to the SN in the SN addition/modification message, which is also captured in the TS 38.340 as follows. * *Therefore, MN needs to convey the up-to-date roaming and access restriction information to SN via XnAP messages.*

However, from the quoted texts, it remains unclear when the MR-DC results at the serving PLMN change, whether the MN conveys the intact MRL, or update the MRL (i.e. replacing the serving PLMN with the PLMN of the SN, and moving the serving PLMN to the equivalent PLMN list) to the SN. Note that in TS 36.300, it is clearly described that for EN-DC the MN signals the **unchanged** restriction information from the MME to the SN (see the agreed R3-180516). * *Therefore, MeNB needs to convey the up-to-date roaming and access restriction information from MME to SgNB via X2AP messages.*

Also, as agreed in R3-180614 and R3-180615, the selected PLMN (instead of the serving PLMN) is signalled to the SN to indicate the PLMN ID of the SCG in the SN node. This somehow proves that the MRL keeps unchanged from the MN to the SN.  Hence for the MR-DC connected 5GC, the same logic applies here to avoid any ambiguity.  |
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| ***Summary of change:*** | To clearly specify that the MN conveys the latest MRL as received from the CN or another NG-RAN node to the SN, for MR-DC with 5GC. 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 on-demand SI. |
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| ***Consequences if not approved:*** | It is ambiguous whether the MN conveys the intact MRL, or update the MRL when the MR-DC results at the serving PLMN change. |
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| ***Clauses affected:*** | 11.1 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ... |
| ***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: R3-234157Rev1: R3-23xxxx Update the procedure texts based on the online comments. |

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| **Change Begins** |

# 11 Service related aspects

## 11.1 Roaming and Access Restrictions

The principles for conveying roaming and access restriction info for EN-DC are described in TS 36.300 [2].

For MR-DC with 5GC, SCG (re)selection at the SN is based on roaming and access restriction information in SN. If roaming and access restriction information is not available at the SN, the SN shall consider that there is no restriction for SCG (re)selection. Therefore, the MN needs to convey the latest roaming and access restriction information as received from the Core Network or another NG-RAN node to the SN via XnAP messages.

**<Unchanged Text Omitted>**

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| **Change Ends** |