**3GPP TSG-RAN WG2** **Meeting #109 emeeting *R2-200XXXX***

**24 February – 6 March 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.331** | **CR** | **1440** | **rev** | **1** | **Current version:** | **15.8.0** |  |
|  | | | | | | | | |
| *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 | **X** | Radio Access Network | **X** | Core Network |  |

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| ***Title:*** | Clarification on the *PLMN-IdentityInfoList* | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | RACS-RAN-Core | | | | |  | ***Date:*** | | | 2020-02-28 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***Release:*** | | | Rel-15 |
|  | *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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In TS36.331, it has been specified that one PLMN can be included in only one entry of the *cellAccessRelatedInfoList* or *cellAccessRelatedInfoList-5GC*.  -------------------------------------TS36.331-start---------------------------------------------  SystemInformationBlockType1-v1430-IEs ::= SEQUENCE {  *Partlyomitted*  cellAccessRelatedInfoList-r14 SEQUENCE (SIZE (1..maxPLMN-1-r14)) OF  CellAccessRelatedInfo-r14 OPTIONAL, -- Need OR  *Partlyomitted*  }  SystemInformationBlockType1-v1530-IEs ::= SEQUENCE {  *Partlyomitted*  cellAccessRelatedInfo-5GC-r15 SEQUENCE {  cellBarred-5GC-r15 ENUMERATED {barred, notBarred},  cellBarred-5GC-CRS-r15 ENUMERATED {barred, notBarred},  cellAccessRelatedInfoList-5GC-r15 SEQUENCE (SIZE (1..maxPLMN-r11)) OF  CellAccessRelatedInfo-5GC-r15  } OPTIONAL, -- Need OP  *Partlyomitted*  }  *Partlyomitted*  CellAccessRelatedInfo-r14 ::= SEQUENCE {  plmn-IdentityList-r14 PLMN-IdentityList,  trackingAreaCode-r14 TrackingAreaCode,  cellIdentity-r14 CellIdentity  }    CellAccessRelatedInfo-5GC-r15 ::= SEQUENCE {  plmn-IdentityList-r15 PLMN-IdentityList-r15,  ran-AreaCode-r15 RAN-AreaCode-r15 OPTIONAL, -- Need OR  trackingAreaCode-5GC-r15 TrackingAreaCode-5GC-r15,  cellIdentity-5GC-r15 CellIdentity-5GC-r15  }  -------------------------------------TS36.331-end----------------------------------------------  In TS38.331, the *PLMN-IdentityInfoList* is introduced, which contains a PLMN identity list and the corresponding TAC, ranac, cell identity and the *cellReservedForOperatorUse* indicator. However, we do not have the limitation that one PLMN can be included in only one entry of the *PLMN-IdentityInfoList* and thus it is not clear whether it is allowed for the network to include one PLMN in more than one entry of the *PLMN-IdentityInfoList*.  As specified in TS38.300, “NR access provides only one TAC and one Cell Identity per cell per PLMN” and there is no clear use case to configure more than one ranac or *cellReservedForOperatorUse* for one PLMN. Having one PLMN in more than one entry of the *PLMN-IdentityInfoList* will cause duplication and should be avoided. | | | | | | | | |
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| ***Summary of change:*** | | Add the limitation that “A PLMN-identity can be included only once, and in only one entry of the *PLMN-IdentityInfoList*”.  **Impact Analysis**  Impacted 5G architecture options:  SA, NE-DC, NR-DC    Impacted functionality:  System information  Inter-operability:  1. If the network is implemented according to the CR and the UE is not, no inter-operability issue is foreseen.  2. If the UE is implemented according to the CR and the network is not, no inter-operability issue is foreseen. | | | | | | | | |
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| ***Consequences if not approved:*** | | It is unclear whether it is allowed for the network to include one PLMN in more than one entry of the *PLMN-IdentityInfoList*. | | | | | | | | |
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| ***Clauses affected:*** | | 6.3.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  |  | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

Start of change

### 6.3.2 Radio resource control information elements

=== Unmodified sections omitted ===

#### – *CellAccessRelatedInfo*

The IE *CellAccessRelatedInfo* indicates cell access related information for this cell.

*CellAccessRelatedInfo* information element

-- ASN1START

-- TAG-CELLACCESSRELATEDINFO-START

CellAccessRelatedInfo ::= SEQUENCE {

plmn-IdentityList PLMN-IdentityInfoList,

cellReservedForOtherUse ENUMERATED {true} OPTIONAL, -- Need R

...

}

-- TAG-CELLACCESSRELATEDINFO-STOP

-- ASN1STOP

|  |
| --- |
| *CellAccessRelatedInfo* field descriptions |
| ***cellReservedForOtherUse***  Indicates whether the cell is reserved, as defined in 38.304 [20]. The field is applicable to all PLMNs. |
| ***plmn-IdentityList***  The *plmn-IdentityList* is used to configure a set of *PLMN-IdentityInfoList* elements. Each of those elements contains a list of one or more PLMN Identities and additional information associated with those PLMNs. The total number of PLMNs in the *PLMN-IdentityInfoList* does not exceed 12. A PLMN-identity can be included only once, and in only one entry of the *PLMN-IdentityInfoList*.The PLMN index is defined as *b1+b2+…+b(n-1)+i* for the PLMN included at the *n*-th entry of *PLMN-IdentityInfoList* and the *i*-th entry of its corresponding *PLMN-IdentityInfo*, where *b(j)* is the number of *PLMN-Identity* entries in each *PLMN-IdentityInfo*, respectively. |

End of change