3GPP TSG-RAN WG3 Meeting #108-e R3-20xxxx

**1st - 11th Jun 2020 was R3-204261**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.423** | **CR** | **0379** | **rev** | **2** | **Current version:** | **15.7.0** |  |
|  | | | | | | | | |
| *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 |  |

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| ***Title:*** | Support of SN not broadcasting system information | | | | | | | | | |
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| ***Source to WG:*** | ZTE, China Telecom, CATT, China Unicom, Nokia, Nokia Shanghai Bell, Samsung, Ericsson | | | | | | | | | |
| ***Source to TSG:*** | RAN3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_newRAT-Core | | | | |  | ***Date:*** | | | 2020-06-11 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | RAN3 discussions revealed that the specification lacks clarifty whether and how to support the option that the SN does not broadcast system information other than radio frame timing and SFN. | | | | | | | | |
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| ***Summary of change:*** | | A NOTE is added in the IE sections for the Neighbour Information NR and the Served Cell Information NR to state that the option that the SN does not broadcast system information other than radio frame timing and SFN is supported and relies on proper O&M configuration.  Impact Analysis:  Impact assessment towards the previous version of the specification (same release):  This CR has isolated impact since the changes only clarify the the option that the SN does not broadcast system information other than radio frame timing and SFN.  No ASN.1 impact. | | | | | | | | |
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| ***Consequences if not approved:*** | | The option where the SN does not broadcast system information other than radio frame timing and SFN would not be clear. | | | | | | | | |
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| ***Clauses affected:*** | | 9.2.2.11, 9.2.2.13 | | | | | | | | |
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|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS 36.423 CR1493 Rel-15  TS 36.423 CR1494 Rel-16  TS 38.423 CR0381 Rel-16  TS 37.340 CR Rel-15  TS 37.340 CR Rel-16 | | |
| ***affected:*** | |  | **X** | Test specifications | | | |  | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | |  | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
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| ***This CR's revision history:*** | | V1: update the semantics description for optional IEs | | | | | | | | |

////////////////////////////////////////////////////////////////////////start of change///////////////////////////////////////////////////////////////////////////

#### 9.2.2.11 Served Cell Information NR

This IE contains cell configuration information of an NR cell that a neighbouring NG-RAN node may need for the Xn AP interface.

NOTE: The option that the SN does not broadcast system information other than radio frame timing and SFN relies on proper OAM configuration. How to use XnAP interface management procedures for this option is not explicitly specified.

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| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| NR-PCI | M |  | INTEGER (0..1007, …) | NR Physical Cell ID | – |  |
| NR CGI | M |  | 9.2.2.7 |  | – |  |
| TAC | M |  | 9.2.2.5 | Tracking Area Code | – |  |
| RANAC | O |  | RAN Area Code  9.2.2.6 |  | – |  |
| **Broadcast PLMNs** |  | *1..<maxnoofBPLMNs>* |  | Broadcast PLMNs. | – |  |
| >PLMN Identity | M |  | 9.2.2.4 |  | – |  |
| CHOICE *NR-Mode-Info* | M |  |  |  | – |  |
| >*FDD* |  |  |  |  |  |  |
| >>**FDD Info** |  | *1* |  |  | – |  |
| >>>UL NR Frequency Info | M |  | NR Frequency Info  9.2.2.19 |  | – |  |
| >>>DL NR Frequency Info | M |  | NR Frequency Info  9.2.2.19 |  | – |  |
| >>>UL Transmission Bandwidth | M |  | NR Transmission Bandwidth  9.2.2.20 |  | – |  |
| >>>DL Transmission Bandwidth | M |  | NR Transmission Bandwidth  9.2.2.20 |  | – |  |
| >*TDD* |  |  |  |  |  |  |
| >>**TDD Info** |  | *1* |  |  | – |  |
| >>>Frequency Info | M |  | NR Frequency Info  9.2.2.19 |  | – |  |
| >>>Transmission Bandwidth | M |  | NR Transmission Bandwidth  9.2.2.20 |  | – |  |
| Measurement Timing Configuration | M |  | OCTET STRING | Contains the *MeasurementTimingConfiguration* inter-node message for the served cell, as defined in TS 38.331 [10]. | – |  |
| Connectivity Support | M |  | 9.2.2.28 |  | – |  |
| **Broadcast PLMN Identity Info List NR** |  | *0..<maxnoofBPLMNs-1>* |  | This IE corresponds to the *PLMN-IdentityInfoList* IE in *SIB1* as specified in TS 38.331 [8]. The PLMN Identities and associated information contained in this IE are provided in the same order as broadcast in SIB1. | YES | ignore |
| **>Broadcast PLMNs** |  | *1..<maxnoofBPLMNs>* |  | Broadcast PLMNs | – |  |
| >>PLMN Identity | M |  | 9.2.2.4 |  | – |  |
| >TAC | M |  | 9.2.2.5 |  | – |  |
| >NR Cell Identity | M |  | BIT STRING (SIZE(36)) |  | – |  |
| >RANAC | O |  | RAN Area Code  9.2.2.6 |  | – |  |

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| Range bound | Explanation |
| maxnoofBPLMNs | Maximum no. of broadcast PLMNs by a cell. Value is 12. |
| maxnoofBPLMNs-1 | Maximum no. of PLMN Ids.broadcast a cell minus 1. Value is 11. |

////////////////////////////////////////////////////////////////////////next change///////////////////////////////////////////////////////////////////////////

#### 9.2.2.13 Neighbour Information NR

This IE contains cell configuration information of NR cells that a neighbour NG-RAN node may need to properly operate its own served cells.

NOTE: The option that the SN does not broadcast system information other than radio frame timing and SFN relies on proper OAM configuration. How to use XnAP interface management procedures for this option is not explicitly specified.

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| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| Neighbour Information NR |  | *1 .. <maxnoofNeighbours>* |  |  |
| >NRPCI | M |  | INTEGER (0..1007) | NR Physical Cell ID |
| >NR CGI | M |  | 9.2.2.7 |  |
| >TAC | M |  | 9.2.2.5 | Tracking Area Code |
| >RANAC | O |  | RAN Area Code  9.2.2.6 |  |
| >CHOICE *NR-Mode-Info* | M |  |  |  |
| *>>FDD* |  |  |  |  |
| **>>>FDD Info** |  | *1* |  |  |
| >>>>UL NR FreqInfo | M |  | NR Frequency Info  9.2.2.19 |  |
| >>>>DL NR FreqInfo | M |  | NR Frequency Info  9.2.2.19 |  |
| *>>TDD* |  |  |  |  |
| **>>>TDD Info** |  | *1* |  |  |
| >>>>NR FreqInfo | M |  | NR ARFCN Frequency Info  9.2.2.19 |  |
| >Connectivity Support | M |  | 9.2.2.28 |  |
| >Measurement Timing Configuration | M |  | OCTET STRING | Contains the *MeasurementTimingConfiguration* inter-node message for the neighbour cell, as defined in TS 38.331 [10]. |

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| Range bound | Explanation |
| maxnoofNeighbours | Maximum no. of neighbour cells associated to a given served cell. Value is 1024. |

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