**3GPP TSG-RAN2 Meeting #110-e *R2-200xxxx***

**E-Meeting, 1 – 12 June 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.306** | **CR** | 0339 | **rev** | **1** | **Current version:** | **16.0.0** |  |
|  | | | | | | | | |
| *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:*** | Introduction of IMS capabilities for NR-DC and NE-DC | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Google Inc. | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_newRAT-Core | | | | |  | ***Date:*** | | | 2020-06-04 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | For NR-DC and NE-DC, the UE is mandated to support IMS voice over split bearer  However, this requirement creates burdens in the UE implementation and IOT. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Introduce a note to describe that IMS voice over split bearer is not supported for NR-DC and NE-DC  **Impact analysis**  Impacted 5G architecture options:  NR-DC, NE-DC  Impacted functionality:  IMS voice over split bearer  Inter-operability:  If the UE is implemented according to CR and the network is not, the network may configure IMS voice over split bearer that the UE may not support in NR-DC and NE-DC. If the network is implemented according to CR and the UE is not, there is no inter-operability issue. | | | | | | | | |
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| ***Consequences if not approved:*** | | The UE is required to support IMS voice over split bearer for NR-DC and NE-DC, which requires the UE and the network have to be IOTed. | | | | | | | | |
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| ***Clauses affected:*** | | 4.2.13 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | | The CR captures agreements in offline discussion in R2-200xxxx. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Update of R2-2005499 | | | | | | | | |

### 4.2.13 IMS Parameters

| Definitions for parameters | Per | M | FDD-TDD  DIFF | FR1-FR2  DIFF |
| --- | --- | --- | --- | --- |
| ***voiceFallbackIndicationEPS-r16***  Indicates whether the UE supports *voiceFallbackIndication* in *RRCRelease* and *MobilityFromNRCommand*. If this field is included, the UE shall support IMS voice over NR and IMS voice over E-UTRA via EPC. | UE | No | No | No |
| ***voiceOverEUTRA-5GC***  Indicates whether the UE supports IMS voice over E-UTRA via 5GC. It is mandated to the UE if the UE is capable of IMS voice over E-UTRA via 5GC. Otherwise, the UE does not include this field. If this field is included and the UE is capable of E-UTRA with EPC, the UE shall support IMS voice over E-UTRA via EPC. | UE | No | No | No |
| ***voiceOverNR***  Indicates whether the UE supports IMS voice over NR. It is mandated to the UE if the UE is capable of IMS voice over NR. Otherwise, the UE does not include this field. If this field is included and the UE is capable of E-UTRA with EPC, the UE shall support IMS voice over E-UTRA via EPC. | UE | No | No | Yes |
| ***voiceOverSCG-BearerEUTRA-5GC***  Indicates whether the UE supports IMS voice over SCG bearer of NE-DC. | UE | No | No | N/A |

NOTE: In this release of specification, IMS voice over split bearer is not supported for NR-DC and NE-DC.