**3GPP TSG-RAN WG2 Meeting #109 electronic *Revised\_R2-2000582***

**Online, 24 Feb – 6 Mar 2020**

|  |
| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **38.306** | **CR** | **0233** | **rev** | **1** | **Current version:** | **15.8.0** |  |
|  |
| *For* [***HELP***](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)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network | **X** | Core Network |  |

|  |
| --- |
|  |
| ***Title:***  | Introdution of EPS voice fallback enhancement |
|  |  |
| ***Source to WG:*** | Qualcomm Incorporated |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | TEI-16 |  | ***Date:*** | 2020-02-27 |
|  |  |  |  |  |
| ***Category:*** | **C** |  | ***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-12 (Release 12)Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
|  |  |
| ***Reason for change:*** | Introdution of EPS voice fallback enhancement feature. |
|  |  |
| ***Summary of change:*** | EPS voice fallback, i.e. support for voice fallback indication in *RRCRelease* and *MobilityFromNRCommand*, is added as an optional feature with UE radio access capability parameter.**Impact Analysis**:Impacted 5G architecture option:NR-SAImpacted functionality:Voice fallback from NR to LTE/EPC.Inter-operability:* If the network is implemented according to the CR and the UE is not; There is no inter-operability problem.
* If the UE is implemented according to the CR and the network is not; There is no inter-operability problem.
 |
|  |  |
| ***Consequences if not approved:*** | It is not clear if the feature is mandatory or optional. |
|  |  |
| ***Clauses affected:*** | 4.2.13 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 36.331 CR 4136r2TS 38.331 CR 1312r3 |
| ***affected:*** |  | **x** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **x** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

### 4.2.13 IMS Parameters

| Definitions for parameters | Per | M | FDD-TDDDIFF | FR1-FR2DIFF |
| --- | --- | --- | --- | --- |
| *eps-voiceFallbackIndication*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 |