**3GPP TSG-RAN WG2 Meeting #119-bis-e *R2-221xxxx***

**E-meeting, 10 – 19 Oct 2022**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **38.306** | **CR** | **0822** | **rev** | **1** | **Current version:** | **17.2.0** |  |
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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 | **X** | Radio Access Network |  | Core Network |  |

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| ***Title:***  | Introduction of capabilities for emergency service related fallback [CellSelection\_EmergencyFallback] |
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| ***Source to WG:*** | Huawei, HiSilicon, Ericsson,... |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | TEI17 |  | ***Date:*** | 2022-10-09 |
|  |  |  |  |  |
| ***Category:*** | **C** |  | ***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:*** | In RAN2 #119bis meeting, the following UE behaviours are agreed for TEI17:* During EPS fallback for emergency call, upon HO failure the UE is allowed to select an acceptable cell when there is no suitable cell found, i.e. UE shall perform suitable cell search first, and may perform acceptable cell search only when no suitable cell is found. This is optional for Rel-17.
* During Emergency service fallback, upon HO failure the UE is allowed to select an acceptable E-UTRA cell when there is no suitable E-UTRA cell found. This is optional for Rel-17.
* The specification is to be updated to allow a UE to select a suitable E-UTRA cell first, and may select an E-UTRA acceptable cell if no suitable cell found, upon HO failure during EPS fallback for emergency call or during Emergency service fallback.

To make it clear that the above UE behavours are optional, the corresponding UE capabilities are to be defined as optional UE capabilities without signalling. |
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| ***Summary of change:*** | In clause 5.3, * Add capability parameter of “Selection of acceptable E-UTRA cell upon HO failure during EPS fallback for emergency call”;
* Add capability parameter of “E-UTRA cell selection upon HO failure during EPS services fallback”.

**Impact analysis**Impacted 5G architecture options:NR SA Impacted functionalityEmergency services fallback, EPS fallback for emergency serviceInter-operability:There is no inter-operability issue.  |
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| ***Consequences if not approved:*** | The UE can not prioritize E-UTRA cell selection upon HO failure during emergency services fallback, and the acceptable E-UTRA cell can not be selected during E-UTRA cell selection for emergency services fallback or EPS fallback. |
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| ***Clauses affected:*** | 5.3 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 38.331 CR 3548  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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| START OF CHANGES |

5.3 RRC connection

| **Definitions for feature** |
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| **RRC connection release with deprioritisation**It is optional for UE to support *RRCRelease* with *deprioritisationReq* as specified in TS 38.331 [9]. |
| **RRC connection establishment failure with temporary offset**It is optional for UE to support RRC connection establishment failure with temporary offset (*Qoffsettemp*) as specified in TS 38.331 [9]. |
| **Selection of acceptable E-UTRA cell upon HO failure during EPS fallback for emergency call**It is optional for UE to support selecting an acceptable E-UTRA cell supporting emergency call if no suitable E-UTRA cell is available upon handover failure during EPS fallback when the UE has an ongoing emergency call as specified in TS 38.331 [9]. |
| **E-UTRA cell selection upon HO failure during EPS services fallback**It is optional for UE to support selecting a suitable E-UTRA cell, and support selecting an acceptable E-UTRA cell supporting emergency call if no suitable E-UTRA cell is available upon handover failure when the UE is performing emergency services fallback as specified in TS 38.331 [9]. |

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| END OF CHANGES |