**3GPP TSG-RAN WG2 Meeting #117-e *R2-220xxxx***

**Electronic, February 21 – March 3, 2022**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **37.340** | **CR** | **0295** | **rev** | **1** | **Current version:** | **16.8.0** |  |
|  |
| *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:***  |  Introduction of FR2 UL gap for Rel-17 |
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| ***Source to WG:*** |  Apple |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | NR\_RF\_FR2\_req\_enh2 |  | ***Date:*** | 2022-02-21 |
|  |  |  |  |  |
| ***Category:*** | B |  | ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | This is to introduce the FR2 UL gap feature in Rel-17.RAN2 agreements:1) FR2 UL gap timing reference is based on the SFN/subframe of FR2 serving cell. 2) In EN-DC, NE-DC and NR-DC without FR2-FR2 band combination, the UL gap configuration is provided by the network entity which configures FR2 bands to UE. There is no need to support MN/SN coordination on FR2 UL gap configuration.3) NR-DC with FR2-FR2 band combination is not supported.4) Using UAI message to indicate the need of FR2 UL gap activation/deactivation.5) UE indicates the preferred FR2 UL gap patterns using UAI message.6) RACH procedure is prioritized over FR2 UL gap. |
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| ***Summary of change:*** | To capture that the network entity who configures FR2 bands to UE is the responsible one in FR2 UL gap configuration.  |
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| ***Consequences if not approved:*** | The WI is not completed.  |
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| ***Clauses affected:*** | 7.xx (new) |
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|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 38.331 CR 2893 |
| ***affected:*** |  | **X** |  Test specifications | TS 38.321 CR 1191 |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR … CR … |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | R2-2202918 |

---------------------------------------------<Start of of 1st change>----------------------------------------

7.11 F1-C transfer over E-UTRA

In EN-DC, the F1-AP message encapsulated in SCTP/IP or F1-C related (SCTP/)IP packet can be transferred between IAB-donor and IAB-node via E-UTRA, if configured by IAB-donor, as specified in TS 38.331 [4]. When both E-UTRA and NR are configured to transfer the F1-AP message encapsulated in SCTP/IP or F1-C related (SCTP/)IP packet, it is up to the IAB implementation when to select the E-UTRA. SRB2 is used for transporting the F1-AP message encapsulated in SCTP/IP or F1-C related (SCTP/)IP packet between IAB-MT and MN [10], and the F1-AP message encapsulated in SCTP/IP or F1-C related (SCTP/)IP packet is transferred as a container via X2-AP between MN and SN, see TS 36.423 [9].

7.xx FR2 UL gap

In EN-DC and NGEN-DC, the SN decides the FR2 UL gap pattern. In NE-DC, the MN decides the FR2 UL gap pattern. In NR-DC without FR2-FR2 band combination, the network entity which configures FR2 bands to UE decides the FR2 UL gap pattern.

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