**3GPP TSG-RAN4 Meeting #98-eR4-2103507**

**Online, 25 Jan. - 5 Feb., 2021**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **38.133** | **CR** | 1464 | **rev** | **1** | **Current version:** | **16.6.0** |  |
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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:***  | Interruption requirements maintenance in NR-DC (R16) |
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| ***Source to WG:*** | Apple |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** | 2021-01-11 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***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)* |
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| ***Reason for change:*** | Requirements for interruption due to measurement on SCC in NR-DC are defined in TS38.133 clause 8.2.4.2.3, which has same content as that defined in SA in clause 8.2.2.2.2. However, only interruption on PCell and other activated SCells are covered. Interruption on PSCell is missing.Another issue is only sync CA is supported in R16, while async NR-DC is supported in R16. Thus additional interruption shall be allowed for async DC just similar as other interruption requirements in clause 8. Similar problem can be found in BWP switch interruption requirements in clause 8.2.4.2.5 |
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| ***Summary of change:*** | 1. Introduce interruption on PSCell due to measurement on SCC in NR-DC.
2. Refers interruption requirements in 8.2.4.2.3 to 8.2.4.2.1, rather 8.2.2.2.2.
3. Clarify that one additional slot would be interrupted in async NR-DC scenario.
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| ***Consequences if not approved:*** | Interruption on PSCell due to measurement on SCC would still be missing. Interrutpion in async NR-DC scenario would still be incorrect. |
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| ***Clauses affected:*** | Section 8.2.4.2.3, 8.2.4.2.5 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** | **X** |  |  Test specifications | TS38.533  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

Start of Change

##### 8.2.4.2.3 Interruptions during measurements on SCC

Interruptions on PCell and/or PSCell due to measurements when an SCell is deactivated are allowed with up to 0.5% probability of missed ACK/NACK when the configured *measCycleSCell* [2] is 640 ms or longer. The UE is only allowed to cause interruptions immediately before and immediately after an SMTC. Each interruption shall not exceed requirement in Table 8.2.4.2.1-1 if the PCell or PSCell is not in the same band as the deactivated SCell. Each interruption shall not exceed requirement in Table 8.2.4.2.1-2 if the PCell or PSCell is in the same band as the deactivated SCell.

Interruptions on activated SCell due to measurements when an SCell is deactivated are allowed with up to 0.5% probability of missed ACK/NACK when the configured *measCycleSCell* [2] is 640 ms or longer. The UE is only allowed to cause interruptions immediately before and immediately after an SMTC. Each interruption shall not exceed requirement in Table 8.2.4.2.1-1 if the activated SCell is not in the same band as the deactivated SCell. Each interruption shall not exceed requirement in Table 8.2.4.2.1-2 if the activated SCell is in the same band as the deactivated SCell.

Unchanged sections omitted

##### 8.2.4.2.5 Interruptions due to Active BWP switching Requirement

The requirements for DCI-based BWP switch, timer-based BWP switch or UL BWP switch triggered by consistent uplink LBT failures in this clause apply to the case that the BWP switch is performed on a single CC or multiple CCs.

When either of the DCI-based, timer-based or RRC-based downlink BWP switch and/or uplink BWP switch occur on multiple CCs simultaneously or over partially overlapping period, the interruption requirements described in this clause apply for each BWP switch.

When UE receives a DCI indicating the UE to switch its active BWP, or when a BWP timer bwp-InactivityTimer defined in TS 38.331 [2] expires, or when the UE receives an RRC command indicating the UE to switch its active BWP or when UL BWP switch is triggered by consistent uplink LBT failures, the UE is allowed to cause an interruption on any other serving cells as defined in clause 8.2.2.2.5. Besides, in asynchronous scenario the UE is allowed an additional interrupt of 1 slot length.

End of Change