3GPP TSG-RAN WG4 Meeting # 99-e R4-2109573

Electronic Meeting, May. 19-27, 2021

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **38.133** | **CR** | 1921 | **rev** | **-** | **Current version:** | **16.7.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network |  | Core Network |  |

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| ***Title:*** | 38.133 CR on CGI reading test cases | | | | | | | | | |
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| ***Source to WG:*** | Qualcomm, MediaTek Inc. | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_RRM\_Enh | | | | |  | ***Date:*** | | | 2021-05-11 |
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| ***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 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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | Change 1: In A.4.6.6.1.2, the number of interruption slot reference is missing: “The UE shall be scheduled continuously throughout the test, and from the start of T3 until 257 ms the number of interrupted slots shall not exceed the allowed number specified in 8.2.1.2.16 [TBD]”, and the following note should be added: “NOTE: The actual overall delays measured in the test may be up to 2xTTIDCCH higher than the measurement reporting delays above because of TTI insertion uncertainty of the measurement report in DCCH.” Also allow 260ms to be consistent with other CGI reading test, including A.6.6.7.2 and A.7.6.5.1.  Change 2: Update requirement in A.6.6.7.2.2 to align with WF R4-2104070 agreed in RAN4#98e, including the LTE power up margin 30ms and specifying the requirement in terms of number of interrupted slots instead of ACK/NACK.  Change 3: Remove TBD in A.7.6.5.1.2 and correct section number | | | | | | | | |
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| ***Summary of change:*** | | Update the CGI reading test cases. No change compared to the endorsed version. | | | | | | | | |
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| ***Consequences if not approved:*** | | CGI reading test cases are wrong | | | | | | | | |
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| ***Clauses affected:*** | | A.4.6.6.1, A.6.6.7.2, A.7.6.5.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **x** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | | **x** |  | Test specifications | | | | TS/TR 38.521-1 CR ... | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

## << Start of changes >>

##### A.4.6.6.1.2 Test Requirements

The UE shall transmit a measurement report containing the cell global identifier of Cell 3 within 257 ms from the start of T3.

Test requirement = RRC Procedure delay + Tidentify\_CGI\_NR + reporting delay

= 15 + 240 + 2

= 257 ms, allow 260ms.

The UE shall be scheduled continuously throughout the test, and from the start of T3 until 257 ms the number of interrupted slots shall not exceed the allowed number specified in 8.2.1.2.16 .

The rate of correct events observed during repeated tests shall be at least 90%.

NOTE:              The actual overall delays measured in the test may be up to 2xTTIDCCH higher than the measurement reporting delays above because of TTI insertion uncertainty of the measurement report in DCCH.

<< End of change >>

## << Start of changes >>

##### A.6.6.7.2.2 Test Requirements

The UE shall transmit a measurement report containing the cell global identifier of cell 2 within 200 milliseconds from the start of T3.

Test requirement = RRC Procedure delay with additional margin + Tidentify\_CGI,E-UTRAN + reporting delay

= 15 + 30 + 150 + 2ms from the start of T3

= 197 ms, allow 200 ms.

* + The UE shall be scheduled continuously throughout the test, and from the start of T3 until 200 ms at least the following number of ACK/NACK shall be detected as being transmitted by the UE.Config 1, 2, 4, 5: 80 ACK/NACK
  + Config 3, 6: 160 ACK/NACK

The rate of correct events observed during repeated tests shall be at least 90%.

NOTE: The actual overall delays measured in the test may be up to 2xTTIDCCH higher than the measurement reporting delays above because of TTI insertion uncertainty of the measurement report in DCCH.

NOTE: The overall ACK/NACK number is caused by two parts. Firstly, at least 60/120 ACK/NACK shall be sent during identifying the cell global identifier of cell 2 according to the requirement in Clause 9.4.7.1. Secondly, given that continuous DL data allocation, additional 20/40 ACK/NACK shall be sent from the start of T3 until 200 ms excludes 150 ms for identifying the cell global identifier of cell 2.

<< End of change >>

## << Start of changes >>

##### A.7.6.5.1.2 Test Requirements

The UE shall report the CGI of cell 2 within 25\*Tsmtc + 6\*Tsi-rnti+20ms +2ms= 762ms from the start of T2, allow 765ms. The rate of correct events observed during repeated tests shall be at least 90%.

The UE shall be scheduled continuously throughout the test, and from the start of T3 until 775 ms the number of interrupted slots shall not exceed the allowed number as defined in clause 8.2.2.2.14.

The rate of correct events observed during repeated tests shall be at least 90%.

NOTE: The actual overall delays measured in the test may be up to 2xTTIDCCH higher than the measurement reporting delays above because of TTI insertion uncertainty of the measurement report in DCCH.

<< End of change >>