**3GPP TSG-RAN WG2 Meeting #114 *Draft R2-2106496***

**Electronic Meeting, May 19- 27, 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **38.331** | **CR** | **2664** | **rev** | **1** | **Current version:** | **16.4.1** |  |
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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 | **X** | Core Network |  |

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| ***Title:*** | Clarification regarding inability to comply with conditional reconfiguration | | | | | | | | | |
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| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
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| ***Work item code:*** | NR\_Mob\_enh-Core | | | | |  | ***Date:*** | | | 2021-05-21 |
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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:*** | | The recent clarifications regarding the UE configuration that applies in case of inability to comply with a conditional configuration are unclear. I.e. the specification includes two different UE actions applied upon detecting non-compliance within the non-conditional reconfiguration.  I.e. a Reconfiguration message including condReconfig (SRB1, SRB3) may have 2 parts: a Non-Conditional reconfiguration (NC part) and a Conditional reconfiguration (C part). We think the compliance check of the C part may or may not be delayed by the UE. So there are two cases, with different UE behaviours:  Case 1: UE delays compliance check for part C and it fails:  In this case, the modified UE behaviour applies: UE continues using the existing config (i.e. continue the NC part that was already applied)  Case 2: Otherwise:  In this case, the original behaviour applies: UE continues using the config prior to received message (i.e. apply neither NC part nor C part)  The current specification incorrectly states that the modified UE behaviour also applies if the compliance check for the Conditional reconfiguration part is not delayed. However, the modified UE behaviour is actual same as the original behaviour i.e. can be used in all cases. To avoid confuseion regarding the handling in the two cases above, proposal is to unify the handling by removing the incorrect/ confusing distinction. | | | | | | | | |
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| ***Summary of change:*** | | The CR includes the following changes:   * UE behaviour is corrected such that in all cases the UE continues existing configuration if compliance check for condReconfig fails   **Impact Analysis**  Impacted 5G architecture options: NR SA, NR-DC, EN-DC  Impacted functionality:  Conditional reconfiguration (CHO and CPC).  Inter-operability: The introduction of this CR does not cause inter-operability issues. | | | | | | | | |
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| ***Consequences if not approved:*** | | The procedure for inability to comply with RRC Reconfiguration remains incorrect | | | | | | | | |
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| ***Clauses affected:*** | | 5.3.5.8.2 | | | | | | | | |
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|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **x** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **x** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

Start of change

##### 5.3.5.8.2 Inability to comply with *RRCReconfiguration*

The UE shall:

1> if the UE is in (NG)EN-DC:

2> if the UE is unable to comply with (part of) the configuration included in the *RRCReconfiguration* message received over SRB3;

3> continue using the configuration used prior to when the inability to comply with the *RRCReconfiguration* message was detected;

3> if MCG transmission is not suspended:

4> initiate the SCG failure information procedure as specified in subclause 5.7.3 to report SCG reconfiguration error, upon which the connection reconfiguration procedure ends;

3> else:

4> initiate the connection re-establishment procedure as specified in TS 36.331 [10], clause 5.3.7, upon which the connection reconfiguration procedure ends;

2> else, if the UE is unable to comply with (part of) the configuration included in the *RRCReconfiguration* message received over SRB1;

3>continue using the configuration used prior to when the inability to comply with the *RRCReconfiguration* message was detected;

3> initiate the connection re-establishment procedure as specified in TS 36.331 [10], clause 5.3.7, upon which the connection reconfiguration procedure ends.

1> else if *RRCReconfiguration* is received via NR (i.e., NR standalone, NE-DC, or NR-DC):

2> if the UE is unable to comply with (part of) the configuration included in the *RRCReconfiguration* message received over SRB3;

NOTE 0: This case does not apply in NE-DC.

3>continue using the configuration used prior to when the inability to comply with the *RRCReconfiguration* message was detected;

3> if MCG transmission is not suspended:

4> initiate the SCG failure information procedure as specified in subclause 5.7.3 to report SCG reconfiguration error, upon which the connection reconfiguration procedure ends;

3> else:

4> initiate the connection re-establishment procedure as specified in clause 5.3.7, upon which the connection reconfiguration procedure ends;

2> else if the UE is unable to comply with (part of) the configuration included in the *RRCReconfiguration* message received over the SRB1 or if the upper layers indicate that the *nas-Container* is invalid:

NOTE 0a: The compliance also covers the SCG configuration carried within octet strings e.g. field *mrdc-SecondaryCellGroupConfig*. I.e. the failure behaviour defined also applies in case the UE cannot comply with the embedded SCG configuration or with the combination of (parts of) the MCG and SCG configurations.

NOTE 0b: The compliance also covers the E-UTRA sidelink configuration carried within an octet string, e.g. field *sl-ConfigDedicatedEUTRA*. I.e. the failure behaviour defined also applies in case the UE cannot comply with the embedded E-UTRA sidelink configuration.

3> continue using the configuration used prior to when the inability to comply with the *RRCReconfiguration* message was detected;

3> if AS security has not been activated:

4> perform the actions upon going to RRC\_IDLE as specified in 5.3.11, with release cause 'other'

3> else if AS security has been activated but SRB2 and at least one DRB or, for IAB, SRB2,have not been setup:

4> perform the actions upon going to RRC\_IDLE as specified in 5.3.11, with release cause 'RRC connection failure';

3> else:

4> initiate the connection re-establishment procedure as specified in 5.3.7, upon which the reconfiguration procedure ends;

1> else if *RRCReconfiguration* is received via other RAT (Handover to NR failure):

2> if the UE is unable to comply with any part of the configuration included in the *RRCReconfiguration* message or if the upper layers indicate that the *nas-Container* is invalid:

3> perform the actions defined for this failure case as defined in the specifications applicable for the other RAT.

NOTE 1: The UE may apply above failure handling also in case the *RRCReconfiguration* message causes a protocol error for which the generic error handling as defined in clause 10 specifies that the UE shall ignore the message.

NOTE 2: If the UE is unable to comply with part of the configuration, it does not apply any part of the configuration, i.e. there is no partial success/failure.

NOTE 3: It is up to UE implementation whether the compliance check for an *RRCReconfiguration* received as part of *ConditionalReconfiguration* is performed upon the reception of the message or upon CHO and CPC execution (when the message is required to be applied).

End of change