**3GPP TSG-RAN WG2 Meeting #118-e R2-220xxxx**

**E-meeting, 9– 20 May 2022**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **36.306** | **CR** |  | **rev** |  | **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 RRC Segmentation capability |
|  |  |
| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | RACS-RAN-Core |  | ***Date:*** | 2022-05-20 |
|  |  |  |  |  |
| ***Category:*** | **C** |  | ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | The network doesn't know whether the UE supports UL RRC segmentation or not before capability enquiry and thus it would be difficult for the network to decide whether to use multiple UE capability enquiry procedures for different RAT to avoid potential size problem. Therefore, indication of UL RRC message segmentation capability in msg5 and UE capability report is useful for network to retrieve UE capability. |
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| ***Summary of change:*** | Add UL RRC message segmentation capability in msg5 Add UL RRC message segmentation capability in UE capability  Impacted functionalityUE capability reportInter-operability:There is no inter-operability issue. |
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| ***Consequences if not approved:*** | The network doesn't know whether the UE supports UL RRC segmentation or not before capability enquiry and thus it would be difficult for the network to decide whether to use multiple UE capability enquiry procedures for different RAT to avoid potential size problem. |
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| ***Clauses affected:*** | 4.3.15 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** | **X** |  Other core specifications  | TS/TR 38.331 CR xxxx |
| ***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

### 4.3.15 Other parameters

#### 4.3.15.1 Void

#### 4.3.15.2 *inDeviceCoexInd-r11*

This parameter defines whether the UE supports in-device coexistence indication as well as autonomous denial functionality as specified in TS 36.331 [5].

#### 4.3.15.3 *powerPrefInd-r11*

This parameter defines whether the UE supports power preference indication as specified in TS 36.331 [5].

#### 4.3.15.4 *ue-Rx-TxTimeDiffMeasurements-r11*

This parameter defines whether the UE supports Rx - Tx time difference measurements as specified in TS 36.331 [5] and TS 36.355 [13]. A TDD UE of this release of the specification that supports UE Rx-Tx time difference measurements, shall support to report UE Rx-Tx time difference measurement result including NTAoffset according to EUTRAN TDD Rx-Tx time difference measurement report mapping as specified in TS 36.133 [16].

#### 4.3.15.5 Void

#### 4.3.15.6 Void

#### 4.3.15.7 Void

#### 4.3.15.8 *inDeviceCoexInd-UL-CA-r11*

This parameter defines whether the UE supports UL CA related in-device coexistence indication as specified in TS 36.331 [5]. A UE that supports UL CA related in-device coexistence indication shall also support in-device coexistence indication.

#### 4.3.15.9 *bwPrefInd-r14*

This parameter defines whether the UE supports maximum PDSCH/PUSCH bandwidth preference indication as specified in TS 36.331 [5]. A UE indicating support of *bwPrefInd-r14* shall also indicate support of *ce-ModeA-r13*.

#### 4.3.15.10 *inDeviceCoexInd-HardwareSharingInd-r13*

This parameter defines whether the UE supports hardware sharing indication as specified in TS 36.331 [5]. A UE that supports hardware sharing indication shall also indicate support of LAA operation.

#### 4.3.15.11 *overheatingInd-r14*

This parameter defines whether the UE supports overheating assistance information as specified in TS 36.331 [5].

#### 4.3.15.12 *assistInfoBitForLC-r15*

This parameter defines whether the UE supports assistance information bit for local cache as specified in TS 36.323 [2].

#### 4.3.15.13 *timeReferenceProvision-r15*

This parameter defines whether the UE supports provision of time reference message *TimeReferenceInformation* as specified in TS 36.331 [5].

#### 4.3.15.14 *flightPathPlan-r15*

This field defines whether the UE supports reporting of the flight path plan through the procedure defined in TS 36.331 [5].

#### 4.3.15.15 *inDeviceCoexInd-ENDC-r15*

This parameter defines whether the UE supports in-device coexistence indication for (NG)EN-DC operation as specified in TS 36.331 [5]. A UE that supports in-device coexistence indication for (NG)EN-DC operation shall also support in-device coexistence indication.

#### 4.3.15.16 *nonCSG-SI-Reporting-r14*

This parameter defines whether the UE supports reporting of PLMN list from cells not broadcasting the field *csg-Identity*.

#### 4.3.15.17 *resumeWithStoredMCG-SCells-r16*

This parameter defines whether the UE supports not deleting the stored E-UTRA MCG SCell configuration when initiating the resume procedure as specified in TS 36.331 [5]. A UE indicating support of *resumeWithStoredMCG-SCells-r16* shall also indicate support of *resumeWithMCG-SCellConfig-r16*.

#### 4.3.15.18 *resumeWithMCG-SCellConfig-r16*

This parameter defines whether the UE supports (re-)configuration of E-UTRA MCG SCells in the *RRCConnectionResume* message as specified in TS 36.331 [5].

#### 4.3.15.19 *resumeWithStoredSCG-r16*

This parameter defines whether the UE supports not deleting the stored NR SCG configuration when initiating the resume procedure as specified in TS 36.331 [5]. A UE indicating support of *resumeWithStoredSCG-r16* shall also indicate support of *resumeWithSCG-Config-r16*.

#### 4.3.15.20 *resumeWithSCG-Config-r16*

This parameter defines whether the UE supports (re-)configuration of an NR SCG in the *RRCConnectionResume* message as specified in TS 36.331 [5].

#### 4.3.15.21 *mcgRLF-RecoveryViaSCG-r16*

This parameter defines whether the UE supports recovery from MCG RLF via split SRB1 (if supported) and via SRB3 (if supported) as specified in TS 36.331 [5].

#### 4.3.15.22 *overheatingIndForSCG-r16*

This parameter defines whether the UE supports the inclusion of NR SCG reduced configuration in the overheating assistance information as specified in TS 36.331 [5]. The UE which indicates support of *overheatingIndForSCG-r16* shall also indicate support of *overheatingInd-r14*.

#### 4.3.15.23 *mpsPriorityIndication-r16*

This parameter defines whether the UE supports *mpsPriorityIndication* on RRC release with redirect as defined in TS 36.331 [5].

#### 4.3.15.xx *ulRRC-Segmentation-r16*

Indicates the UE supports uplink RRC message segmentation. Absent of this field dosen’t implicate the UE doesn’t support uplink RRC message segmentation.

NEXT CHANGE

### 6.8.12 Segmentation for UE capability information

It is optional for UE to support segmentation of *UECapabilityInformation* as specified in TS 36.331 [5].