**3GPP TSG-RAN WG2 Meeting #121 R2-2302135**

**Athens Greece, 27th Feb–3rd Mar, 2023**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
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|  | **38.351** | **CR** | 0015 | **rev** | 1 | **Current version:** | **17.3.0** |  |
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| *For* ***[HELP](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)*** *on using this form: comprehensive instructions can be found at <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:***  | Corrections on SRAP for SL relay |
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| ***Source to WG:*** | ZTE Corporation, Sanechips |
| ***Source to TSG:*** | R2 |
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| ***Work item code:*** | NR\_SL\_Relay-Core |  | ***Date:*** | 2023-2-15 |
|  |  |  |  |  |
| ***Category:*** | ***F*** |  | ***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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | 1. For the SRAP configuration for remote/relay UE, actually, RRC configures mapping from a RB to egress RLC channel.
2. For UL data transfer, remote UE determines BEARER ID corresponding to DRB identity minus 1 for DRB. When Relay UE determines egress Uu RLC channel by matching bearer mapping of the RB identity based on BEARER ID, for DRB, the DRB identity is BEARER ID plus 1. It shall be clarified in the spec.
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| ***Summary of change:*** | 1. In clause 4.5, add “ a radio bearer identified by”.
2. In clause 5.3.3.2, clarify the DRB identify is BEARER ID plus 1.

**Impact analysis****Impacted functionality:**Packet forwarding at SRAP entity.**Inter-operability:**There is no inter-operatbility issues since this change is just for Relay UE’s or Remote UE’s internal operation. |
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| ***Consequences if not approved:*** | 1. Confusion wording for RRC configuration.
2. Relay UE may determine wrong DRB identity and match to wrong bearer mapping thus map to wrong egress Uu RLC channel.
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| ***Clauses affected:*** | 4.5, 5.3.3.2 |
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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 ...  |
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| ***Other comments:*** |  |
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| ***This CR's revision history:*** | Rev 1: Revised based on agreements. |

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| *Start of change* |

## 4.5 Configurations

The configuration of the SRAP entity for U2N Remote UE includes:

- Mapping from a radio bearer identified by BEARER ID field to egress PC5 Relay RLC channel via RRC;

- The local identity via RRC.

The configuration of the SRAP entity for U2N Relay UE includes:

- The local identity for each U2N Remote UE via RRC;

- Mapping from a radio bearer identified by UE ID field and BEARER ID field to egress Uu Relay RLC channel for each U2N Remote UE via RRC;

- Mapping from a radio bearer identified by UE ID field and BEARER ID field to egress PC5 Relay RLC channel for each U2N Remote UE via RRC.

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| *Next change* |

#### 5.3.3.2 Egress RLC channel determination

For a SRAP Data PDU to be transmitted, the SRAP entity shall:

- if there is an entry in *sl-SRAP-ConfigRelay*, whose *sl-LocalIdentity* matches the UE ID field in SRAP Data PDU, and which includes an *sl-RemoteUE-RB-Identity* matches SRB identityor DRB identity of the SRAP Data PDU determined by the BEARER ID field (For the BEARER ID shared by both SRB and DRB, SRB and DRB are differentiated based on *sl-RemoteUE-RB-Identity* associated with the entry containing the *sl-EgressRLC-ChannelPC5* which matches LCID of the PC5 Relay RLC Channel from which the SRAP Data PDU is received, and for DRB, the DRB identity is BEARER ID plus 1):

- Determine the egress Uu Relay RLC channel corresponding to *sl-EgressRLC-ChannelUu* configured for the concerned *sl-LocalIdentity* and concerned *sl-RemoteUE-RB-Identity* as specified in TS 38.331 [3].

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| *End of change* |