**3GPP TSG-RAN WG2 #125bis *R2-240xxxx***

**Changsha, China, April 2024**

Agenda Item: 7.9.4

Source: OPPO

Title: -

Document for: Discussion

# Introduction

This paper is to collect companies comment for SRAP corrections for R18 Relay enhancement.

# Discussion

In R2-2402587, it is proposed to add the following condition in 5.3a.1.2:

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| 5.3a.1.2 UE ID fields and BEARER ID field determinationFor an U2U SRAP SDU received from upper layer, the SRAP entity shall:- If there is an entry in *sl-LocalID-PairToAddModList*, in which the *sl-RemoteUE-L2Identity* and the *sl-PeerRemoteUE-L2Identity* match the source L2 ID of the L2 U2U Remote UE and the destination L2 ID of the peer L2 U2U Remote UE: - Determine the UE ID (for SRC) field corresponding to *sl-RemoteUE-LocalIdentity* configured for the concerned *sl-RemoteUE-L2Identity* and UE ID (for DST) field corresponding to *sl-PeerRemoteUE-LocalIdentity* configured for the concerned *sl-PeerRemoteUE-L2Identity* as specified in TS 38.331 [3];- Determine the egress link on PC5 interface towards the U2U relay UE based on the concerned *sl-RemoteUE-L2Identity* and *sl-PeerRemoteUE-L2Identity* as specified in TS 38.331 [3];- Determine the BEARER ID field for SL-SRBs as the fixed value (i.e., set 0/1/2/3 for SL-SRB0/1/2/3 respectively) or for SL-DRBs as the 5 LSBs of *slrb-PC5-ConfigIndex* used in end-to-end SL DRB configuration procedure as specified in TS 38.331 [3]. |

During the online session, there are different views on whether this change is needed or the UE behaviour on determining local ID/egress link based on the corresponding L2 ID is already clear. So the following question is to check companies’ view on whether this change is needed.

**Question-1: Do you think the above change in R2-2402587 is needed?**

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| **Company** | **Yes/No** | **Comments** |
| ASUSTeK | Yes | We think this change is needed, considering the following reasons:1. It was agreed in RAN2#123bis that the UE ID assignment for U2U remote UEs is up to U2U relay UE implementation, while the current ASN.1 seems to support two different ways of UE IDs allocation i.e. per Remote UE and per end-to-end PC5 RRC connection.
2. In our understanding, error handling in clause 5.4 does not suggest which way to apply either.
3. The following condition added after RAN2#125 for U2U Relay UE seems to suggest UE IDs allocation per end-to-end PC5 RRC connection:

5.3a.3 Transmitting operation of U2U Relay UE…5.3a.3.2 Egress link determinationFor an U2U SRAP SDU to be transmitted, the SRAP entity shall:- If there is an entry in *sl-LocalID-PairToAddModList*, in which the *sl-RemoteUE-LocalIdentity* and *sl-PeerRemoteUE-LocalIdentity* match the UE ID fields in the U2U SRAP Data PDU:- Determine the egress link on PC5 interface towards the peer U2U remote UE identified by *sl-PeerRemoteUE-L2Identity* configured for the concerned *sl-PeerRemoteUE-LocalIdentity* as specified in TS 38.331 [3].Therefore, we think it is better to align U2U Remote UE behavior in 5.3a.1.2 with U2U Relay UE behavior in 5.3a.3.2 to make it clearer. |
| ZTE | Yes | We think this change makes sense. Before determine the UE ID fields and bearer ID field, the remote UE should have obtained the local ID configuration from the Relay UE. It is reasonable to check the local ID entry associated with the UE pair before the determination. But in the sentence, for the peer remote UE ID, it should be the source L2 ID of the peer remote UE.- If there is an entry in *sl-LocalID-PairToAddModList*, in which the *sl-RemoteUE-L2Identity* and the *sl-PeerRemoteUE-L2Identity* match the source L2 ID of the L2 U2U Remote UE and the ~~destination~~source L2 ID of the peer L2 U2U Remote UE: |
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**Question-2: Any comments on the drafted SRAP CR?**

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| **Company** | **Clause** | **Comment/suggested change** |
| ZTE |  | 1. In Figure 4.2.2-4, it says “Determine UE ID, BEARER ID and egress link”. While in 5.3a.1.2, it is “UE ID fields, egress link and BEARER ID field determination”. In addition, some company commented online that the egress link should be determined firstly. Not sure whether the sequence of “egress link”/ “UE ID”/ “BEARER ID” should keep the same in the different clauses.
2. The “Source to TSG” and revision history in the cover sheet need to be added?
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