**3GPP TSG-RAN WG2 #119bis-e *R2-221xxxx***

**E-meeting, October 2022**

Agenda Item: 6.7.2.3

Source: OPPO

Title: Report of [420]

Document for: Discussion, Decision

# Introduction

* [AT119bis-e][420][Relay] Rel-17 SRAP CR (OPPO)

 Scope: Check the wording of P1 from R2-2210770 and the content of P2, and develop a CR to 38.351.

 Intended outcome: Agreeable CR

 Deadline: Friday 2022-10-14 1000 UTC

# Contact Points

Respondents to the email discussion are kindly asked to fill in the following table.

|  |  |  |
| --- | --- | --- |
| Company | Name | Email Address |
| OPPO | Boyuan Zhang | zhangboyuan@oppo.com |
| vivo | Boubacar | kimba@vivo.com |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# Discussion

## Phase-I discussion on Proposal-2(deadline as 2022-10-13 0400UTC)

|  |  |  |  |
| --- | --- | --- | --- |
| **Tdoc No.** | **Source** | **Reason for change** | **Summary of change** |
| **[R2-2210043](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119bis-e/Docs/R2-2210043.zip)** | Samsung R&D Institute UK | Make various essential corrections. | 4. In 5.2.2.1 (Egress link determination), clarified that an egress link can only be selected if it is not in RLF. |
| **[R2-2210043](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119bis-e/Docs/R2-2210043.zip)** | Samsung R&D Institute UK | Make various essential corrections. | 6. In 5.4 (Handling of unknown, unforeseen, and erroneous protocol data), add the underlying bit: “For U2N Remote UE, if sl-RemoteUE-RB-Identity isand sl-LocalIdentity are both configured, when a SRAP Data PDU with SRAP header that contains a UE ID field or BEARER ID field which is not included in sl-SRAP-ConfigRemote is received, the SRAP entity shall:…”. Otherwise (if sl-LocalIdentity is not configured), checking the UE ID field for a match is meaningless - why check whether the packet contains a UE ID field included in sl-SRAP-Config-Remote, when the Remote UE ID has not been configured anyway? |
| **[R2-2209904](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119bis-e/Docs/R2-2209904.zip)** | ZTE, Sanechips | 3. In clause 4.5, for configuration of SRAP via RRC signalling, it is confusion to use “BEARER ID” and “UE ID” field. Suggest to remove. | 3. In clause 4.5, remove the BEARER ID field and UE ID field. |

Q1.1 Does company agree with the change-4 in R2-2210043?

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comment |
| OPPO | No | If there is a RLF, the related handling has been specified in RRC spec, not sure if we need to further specify this aspect in SRAP.  |
| vivo | No | SRAP does not need to handle RLF since detailed RLF operations had been captured in RRC spec. |
|  |  |  |

Q1.2 Does company agree with the change-6 in R2-2210043?

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comment |
| OPPO | No | Whether it is a typical case to consider that the per-bearer SRAP mapping is provided, yet the local ID configuration is not provided? |
| vivo | No | From our understanding, if the local ID of remote UE is not configured, the RB mapping is meaningless and can not be configured alone. Hence, the current description is enough. |
|  |  |  |

Q1.3 Does company agree with the change 3 in R2-2209904?

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comment |
| OPPO | No | Not see obvious problem in the current spec |
| vivo | No | Current spec is ok for us. |
|  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Tdoc No.** | **Source** | **Reason for change** | **Summary of change** |
| **[R2-2209893](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119bis-e/Docs/R2-2209893.zip)** | CATT | In RAN2#119-e meeting, one clarification that the handling of DL SRB0 can be the receiving part at the Uu interface to remove the SRAP header was added into TS38.351. For UL, it is also reasonable to allow the receiving part at the PC5 interface to add the SRAP header for UL SRB0. | In section 4.2.2, add the general description to allow the receiving part at the PC5 interface to add the SRAP header for UL SRB0. |
| **[R2-2209904](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119bis-e/Docs/R2-2209904.zip)** | ZTE, Sanechips | 2. For DL SRB0 packets, for the alternative case, If Uu SRAP Rx part removes the SRAP header and delivers SRAP SDUs to the PC5 Tx part, then the description “construct an SRAP Data PDU without SRAP header” is needed in clause 5.2.2 before submitting the SRAP Data PDU to lower layer. Consequently, in clause 5.2.2, it shall be distinguished whether the SRAP data PDU or SRAP SDU is received from the collocated Uu SRAP Rx part. For simplicity, for both UL and DL SRB0, it is suggested that the SRAP Rx part directly delivers the received SRAP Data PDU to the collocated SRAP Tx part. | 2. In clause 4.2.2, for DL SRB0 packets, remove the alternative case. |

During last meeting, the change that the handling of DL SRB0 can be the receiving part at the Uu interface to remove the SRAP header was added into the spec. Correspondingly, the change in R2-2209893 proposed that the similar handling for UL SRB0 should also be applied, i.e., to allow the receiving part at the PC5 interface to add the SRAP header for UL SRB0. On the other side, the change-2 in R2-2209904 proposed that if adopting the added handling of DL SRB0, it will cause complexity to differentiate whether the SRAP data PDU or SRAP SDU is received, so they proposed to revert the spec back, i.e. remove the handling that for DL SRB0 it can be the receiving part at the Uu interface to remove the SRAP header.

Q2.1 Does company agree with the change 2 in R2-2209904 to revert the spec back, i.e. remove the handling that the receiving part on the SRAP entity of Uu interface may remove the SRAP header?

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comment |
| OPPO | No | There seems no big need to revert this agreement. |
| vivo | No | Both two alternatives can work. No need to revert the agreement. |
|  |  |  |

Q2.2 Does company agree that similar handling of UL SRB0 should also be applied in the spec, i.e., add the general description to allow the receiving part at the PC5 interface to add the SRAP header for UL SRB0?

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comment |
| OPPO | See comment | It seems wired to require PC5 entity to add the header to be used for Uu.. so we tend to be negative, yet open to hear the view from others. |
| vivo | No  | The transmitting part on the SRAP entity of Uu interface is more suitable to add the header than the receiving part on the SRAP entity of PC5 interface since the header is used and carried on Uu interface. |
|  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Tdoc No,** | **Source** | **Reason for change** | **Summary of change** |
| **[R2-2209904](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119bis-e/Docs/R2-2209904.zip)** | ZTE, Sanechips | 1. For UL SRB0 packets, actually,the SARP data PDU (without SRAP header here) is equal to SRAP SDU. It’s better to say “deliver the SRAP data PDU” to Uu Tx part, and then the Uu Tx part to reconstruct the SRAP data PDU with SRAP header. Otherwise, if we say “deliver SRAP SDUs to...”, the description in clause 5.3.3 needs to be changed accordingly, E.g. “if the SRAP Data PDU is received from SL-RLC0...” --> “if the SRAP Data PDUSDU...”. | 1. In clause 4.2.2, for UL SRB0 packets, change the SRAP SDUs to SRAP Data PDUs. |
| **[R2-2209904](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119bis-e/Docs/R2-2209904.zip)** | ZTE, Sanechips | 6. In clause 5.3.3, use the same wording as in clause 5.2.2. | 6. In clause 5.3.3, change the sentence “Upon receiving SRAP data packet from the receiving part on the collocated SRAP entity on the PC5 interface” to “When the transmitting part of the SRAP entity on the PC5 interface has an SRAP Data PDU to transmit”. |

For the first change in R2-2209904, rapp understands that the motivation is not strong enough since rapp does not agree that if we stick to the wording “deliver SRAP SDUs to”, then we need to have the change in 5.3.3 from “if the SRAP Data PDU is received from SL-RLC0” to ”if the SRAP Data SDU…..” since the thing comes out of RLC can only be SRAP data PDU. Also in section 4.2.2, it talks about the packet forwarding between PC5 Rx and Uu Tx. Thus, rapp suggests not to adopt the first change in R2-2209904.

Q3.1 Does company agree with the intention of change-1 in R2-2209904?

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comment |
| OPPO | No | As stated above. |
| vivo | No | Current spec is ok. |
|  |  |  |

For change-6 in R2-2209904, firstly rapp understands that if to align the wording between 5.2.2 and 5.3.3, one can choose to change the wording either in 5.2.2 or in 5.3.3, which is worthwhile for a discussion. Secondly, the change to 5.3.3 is wrong since it is not ‘When the transmitting part of the SRAP entity on the **PC5** interface’ but should be **Uu**? But anyway, detailed wording can be further discussed in the CR discussion.

Q3.2 In order to align the wording between 5.3.3 and 5.2.2, which section would company like to change?

|  |  |  |
| --- | --- | --- |
| Company | Change Section (5.2.2/5.3.3) | Comment |
|  |  |  |
|  |  |  |
|  |  |  |

## Phase-I discussion on CR based on Proposal 1 (deadline as 2022-10-13 0400 UTC)

In order to keep a clean track on each iteration on the CR updating, rapp suggests to use the below table to collect companies’ view on the running CR and every iteration will be made based on the table, and also please note that **currently the tracking is only for the changes based on P1, the remaining changes based on P2 will be initiated when phase II begin**.

|  |  |  |
| --- | --- | --- |
| Company | Current changes | Comment |
|  |  |  |
|  |  |  |

# Conclusion

We have the following proposals:

# Reference

1. R2-2209893 Correction on SRAP for L2 U2N Relay CATT
2. R2-2209904 Correction on SRAP for L2 U2N relay ZTE, Sanechips
3. R2-2210043 Miscellaneous corrections to 38.351 Samsung R&D Institute UK
4. R2-2210673 DraftCR 38.351 Miscellaneous SRAP changes Nokia, Nokia Shanghai Bell