**3GPP TSG-RAN WG2 Meeting #113bis electronic** **R2-2104406**

**Online, April 12th – 20th, 2021**

**Agenda item: 8.7.4.2**

**Source: Futurewei**

**Title: Report of [AT113bis-e][604][Relay] Proposals from summary of agenda item 8.7.4.2**

**Document for: Discussion and Decision**

# Introduction

This document is to report the outcome of the following email discussion in RAN2#113bis-e Meeting.

**[AT113bis-e][604][Relay] Proposals from summary of agenda item 8.7.4.2 (Futurewei)**

Scope: Continue discussion of the summary of AI 8.7.4.2 and try to reach agreeable proposals.

Intended outcome: Report in R2-2104406

Deadline:  Friday 2021-04-16 1000 UTC

The email discussion takes the summary document of agenda item 8.7.4.2 [1] as starting point, and extends the discussion to invite companies’ view if the proposals in [1] are agreeable.

# Contact Information

|  |  |
| --- | --- |
| **Company** | **Contact: Name (E-mail)** |
| Futurewei | Hao Bi (hao.bi@futurewei.com) |
|  |  |
|  |  |

# Adaptation Layer over PC5

It is almost evenly split among companies on whether or not adaptation layer should be specified over PC5 in Rel-17. Hence, an online discussion seems inevitable. Companies are, however, encouraged to suggest wayforward to be considered. For example, the moderator is wondering if concerns of specification workload and additional UE implementation can be alleviated by limiting PC5 adaptation layer to be of similar PDU format (e.g., header content, control PDU) and functionalities as Uu adaptation layer.

**Proposal 1:** RAN2 to discuss and decide if adaptation layer over PC5 should be specified in Rel-17.

**Question 1:** Is Proposal 1 agreeable?

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| Futurewei | Yes | It may be considered to limit PC5 adaptation layer to be of similar PDU format (e.g., header content, control PDU) and functionalities as Uu adaptation layer, in a way to address concerns of specification workload and additional UE implementation. |
|  |  |  |
|  |  |  |

**Proposal 2:** Send LS to SA2 to inform them of the final protocol stack of L2 UE to Network relay.

**Question 2:** Is Proposal 2 agreeable?

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| Futurewei | Yes |  |
|  |  |  |
|  |  |  |

# Adaptation Layer over Uu

## Adaptation Layer Header

**Proposal 3:** For both DL and UL transmission of Uu radio bearers other than SRB0, identity information of a remote UE and its Uu radio bearer are included in the header of adaptation layer over Uu. FFS for SRB0.

**Question 3:** Is Proposal 3 agreeable?

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| Futurewei | Yes |  |
|  |  |  |
|  |  |  |

**Proposal 3a:** The radio bearer ID in the adaptation layer header is the Uu radio bearer ID of the remote UE.

**Question 3a:** Is Proposal 3a agreeable?

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| Futurewei | Yes |  |
|  |  |  |
|  |  |  |

**Proposal 3b:** The UE ID in the adaptation layer header is a local, temporary remote UE ID. FFS whether the local, temporary remote UE ID is assigned by the remote UE, the relay UE, or the serving gNB of the relay UE.

**Question 3b:** Is Proposal 3b agreeable?

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| Futurewei | Yes |  |
|  |  |  |
|  |  |  |

**Proposal 3c:** Relay UE is configured with mapping tables between PC5 RLC IDs, remote UE Uu radio bearer IDs (determined by UE ID and radio bearer ID), and Uu RLC bearer IDs.

**Question 3c:** Is Proposal 3c agreeable?

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| Futurewei | Yes |  |
|  |  |  |
|  |  |  |

**Proposal 4:** Send LS to SA3 to check whether there is security issue for disclosing in the adaptation layer, temporary remote UE identifier, configured by the serving gNB or by the relay UE.

**Question 4:** Is Proposal 4 agreeable?

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| Futurewei | Yes |  |
|  |  |  |
|  |  |  |

# Other proposals

There’d be limited time available in this meeting on this agenda item. The guidance in WID and from chairman is to prioritize topics that may require coordination with other groups. If there is any, companies are invited to suggest other topics deemed to be important to be treated in this meeting.

|  |  |
| --- | --- |
| **Company** | **Comments** |
|  |  |
|  |  |
|  |  |

# Conclusions

To be provided later …

# References

1. R2-2104505 Summary document for AI 8.7.4.2, Futurewei.