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

Electronic meeting, 9th – 20th May 2022

Agenda Item: 6.4.5

Source: Intel Corporation (Rapporteur)

Title: [AT118-e][069][eIAB] UE caps (Intel)

Document for: Discussion and Decision

# Introduction

This document captures the following discussion:

* [AT118-e][069][eIAB] UE caps (Intel)

Scope: Address the corrections / remaining issues from tdocs submitted under AI 6.4.5. 2. Progress UE caps draft CRs (38306, 38331). Identify new impact if any.

Intended outcome: Report (if needed), endorsed draft CRs (for merge with mega CRs

Deadline: CB W2 Wed (if needed), Endorsed Draft CRs ready at EOM

The discussion consists of two phases, Phase 1 and Phase 2, and the deadline of each phase is given below:

Phase 1: Deadline: Friday W1, 5:00pm UTC.

Address the corrections / remaining issues from tdocs submitted under AI 6.4.5.

Phase 2: Deadline: Wednesday W2, 10:00am UTC.

Review updated draft CRs for UE capabilities (38306, 38331).

**Contact**

To make it easier to find the correct contact delegate in each company for potential follow-up questions, the rapporteur encourages the delegates who provided input to provide their contacts information in this table:

|  |  |
| --- | --- |
| **Company** | **Contact: Name (Email)** |
| Intel (Rapporteur) | Ziyi.li@intel.com |
| Apple | Ralf Rossbach (rrossbach@apple.com) |
| LG Electronics | Gyeong-Cheol LEE (gyeongcheol.lee@lge.com) |
|  |  |
|  |  |
|  |  |
|  |  |

# Discussion

## Header rewriting based Re-routing IAB-MT capability

As discussed in [1], a single bit is agreed to be used as IAB-MT capability for BAP header rewriting based re-routing of all scenarios. [1] proposes with following changes by removing ‘/or’:

| Definitions for parameters | Per | M | FDD-TDD  DIFF | FR1-FR2  DIFF |
| --- | --- | --- | --- | --- |
| ***bapHeaderRewriting-Rerouting-r17***  Indicates whether the IAB-MT supports BAP header rewriting based re-routing, including inter-donor DU local re-routing and inter-donor CU re-routing, as specified in TS 38.340 [23]. | IAB-MT | No | No | No |

#### **Q1. Do you agree with above change?**

|  |  |  |
| --- | --- | --- |
| Company | Y/N | Comment |
| Apple | Yes |  |
| LGE | Y |  |
|  |  |  |

## Header rewriting based Routing IAB-MT capability

As discussed in [2], BH RLF recovery under inter-donor CU scenario is missed in the field description of *bapHeaderRewriting-Routing-r17*, which also requires to perform BAP header rewriting. [2] proposes with following changes by adding ‘inter-donor CU RLF recovery’:

| ***bapHeaderRewriting-Routing-r17***  Indicates whether the IAB-MT supports BAP header rewriting based inter-donor CU routing, including inter-donor CU partial migration, inter-donor CU RLF recovery, and inter-donor CU routing for topology redundancy, as specified in TS 38.340 [23]. | IAB-MT | No | No | No |
| --- | --- | --- | --- | --- |

#### **Q2. Do you agree with above changes?**

|  |  |  |
| --- | --- | --- |
| Company | Y/N | Comment |
| Apple | Yes | To add inter-donor CU RLF as a trigger scenario for header rewriting looks correct. However, the text in the capability description does not quite match what is there in TS 38.340. For example, the scenarios are described in TS 38.401. Secondly, “BAP header rewriting based inter-donor CU routing” is misleading, it should read “based on”. We propose to include these two changes as shown below.  ***bapHeaderRewriting-Routing-r17***  Indicates whether the IAB-MT supports BAP header rewriting based on inter-donor CU routing, including inter-donor CU partial migration, inter-donor CU RLF recovery, and inter-donor CU routing for topology redundancy, as specified in TS 38.340 [23] and 38.401 [x]. |
| LGE | Y |  |
|  |  |  |

## LCG Extention IAB-MT capability

As discussed in [2], extended BSR is also supported when IAB-MT supports LCG extension. The field description should be updated accordingly with following changes:

| ***lcg-ExtensionIAB-r17***  Indicates whether the IAB-MT supports extended logical channel group and extended Buffer Status Report as specified in TS 38.321 [8]. | IAB-MT | No | No | No |
| --- | --- | --- | --- | --- |

#### **Q3. Do you agree with above changes?**

|  |  |  |
| --- | --- | --- |
| Company | Y/N | Comment |
| Apple | No | If companies prefer using extended BSR without logicalChannelGroup-IAB-Ext-r17, extended BSR would require a separate capability. However, this depends on other decisions to be taken in MAC/RRC based on contributions, it was already discussed earlier. |
| LGE | Y |  |
|  |  |  |

# Conclusion

Based on the discussion above, the following is proposed:

# References

[1] R2-2204791, Correction on IAB-MT capability of header rewriting based re-routing (ZTE)

[2] R2-2205258, Corrections on the bapHeaderRewriting-Routing and lcg-ExtensionIAB for eIAB (Huawei)