3GPP TSG-RAN WG3 #113-e R3-214228

Online, 16 – 26 Aug, 2021

Agenda Item: 23.2.3

Source: Huawei (moderator)

Title: Summary of Offline Discussion on Application Protocol for Enhanced eNB Architecture Evolution

Document for: Approval

# Introduction

**CB: # eNBarchEvo4\_E1AP**

**- HW:**

**ECGI should be introduced for eNB/ ng-eNB-CU CP-UP separation**

**s-15 and s-16 should be added to the PDCP SN Size**

**Clarify the MDT configuration IE should support the E-UTRAN MDT configuration parameters**

**- E///:**

**Add notes for NPN IEs, Inactive mode IEs and IAB messages that these are not applicable to LTE CP-UP split**

**Add the Global Node ID to CP node initiated E1 Setup in order to identify the CP node type**

**Capture remaining LTE specifities in TS 38.463**

**Reuse the existing UE AP IDs for the new logical entities**

**- Chair:**

**Merge/revise 3340, 3879 if agreeable**

(HW - moderator)

Summary of offline disc in [R3-214228](Inbox%5CR3-214228.zip)

# For the Chairman’s Notes

**To be agreed:**

xxxx

# Discussion

## Procedures, messages or IEs not used for eNBs

In [1], it noted that some procedures, messages or IEs are specific to NR. Correspondingly, it was proposed that:

* Add notes for NPN IEs, Inactive mode IEs and IAB messages that these are not applicable to LTE CP-UP split

Here, the discussion is whether the above proposal can be agreed?

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## Identification of the CP node

It was noted in [1] that, with the enhanced eNB architecture, the UP node may be shared by eNB CP entities or gNB CP entities. Therefore, the UP entity needs to be able to identify the CP node type at E1 Setup, in order to activate LTE or NR specifities for the UP. It was proposed that:

- Add the Global Node ID to CP node initiated E1 Setup in order to identify the CP node.

Here the discussion is about whether UP cannot identify the CP node type when the UP node is shared? And whether it is necessary to add the Global Node ID?

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## UE AP IDs

It was proposed in [1] that we can reuse the existing UE AP IDs with a note for easy implementation:

* Reuse the existing UE AP IDs for the new logical entities.

Therefore, the discussion here is whether we can agree to reuse the existing UE AP IDs?

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## Introduce ECGI for eNB/ng-eNB-CU CP-UP separation

As mentioned in [2], since the ECGI has different format than the NR CGI, the NR CGI could not be used for the eNB/ ng-eNB-CU CP-UP separation, and the ECGI should be introduced.

Here the target is to discuss whether to agree that ECGI should be introduced for eNB/ ng-eNB-CU CP-UP separation.

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## PDCP SN

It is also mentioned in [2] that for PDCP SN size, the length of 15 and 16 bits are missing, so the following is proposed:

* s-15 and s-16 should be added to the PDCP SN Size

Therefore, it is proposed to discuss whether we can agree the above proposal.

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## LTE specifities

The paper in [1] stated that the following LTE specifities need to be captured in TS 38.463 with the TP shown in [3].

- eNB-DU ID

- LTE RRC for Counter Check

- E-UTRA RAT Type for Data Usage Report List

- MDT configuration

In [2], it is also proposed to clarify that *MDT configuration* IE should support the E-UTRAN MDT configuration parameters.

Here the discussion is about whether we should capture the above mentioned LTE specifities in TS 38.463. The answer could be yes/no, and comments/reasoning of the answer is welcome.

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# Conclusion, Recommendations [if needed]

If needed

# References

1. R3-213878, E1 changes needed for eNB CP-UP separation (Ericsson)
2. R3-213339, Further discussion on stage 3 details (Huawei)
3. R3-213879, (TP for Enh-eNB Arch Evol BL CR for TS 38.463) E1 changes needed for eNB CP-UP separation (Ericsson)
4. R3-213340, (TP for BL CR TS 38.463) Stage 3 update to the new interface (Huawei)