**3GPP TSG-RAN WG3 Meeting #123 R3-240875**

**Athens, GR, 26 Feb – 01 Mar, 2024**

Agenda Item: 9.1.5.1

Source: Huawei

Title: Summary offline discusison for SON for NR-U

Document for: Discussion

# Introduction

This document contains the summary of offline discussion for the following CB:

**CB: # SONMDT3\_NRU**

**- Discuss the options above and capture the agreements**

(moderator - HW)

Summary of offline disc[R3-240875](file:///C%3A%5CUsers%5CZhang%20Hongzhuo%5CDesktop%5CNR-U%5CInbox%5CR3-240875.zip).

# Proposals for Chair notes

 **Conclusion 1: A request in UE context setup request is needed to request the DU to report the number of DL LBT failure to the CU.**

**Conclusion 2: Use a new non-UE associated procedure, namely DU-CU Access and Mobility Indication to transfer the number of DL LBT failure from DU to CU.**

**Conclusion 3: Add a request in the UE context mod request to cover the intra DU mobility case.**

[R3-240462](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123%5CDocs%5CR3-240462.zip), stage 2 CR, agreed.

[R3-240463](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_123%5CDocs%5CR3-240463.zip), stage 3 CR, rev in R3-24xxxx, agreed.

# Discussion

**Issue: which procedure is used to transfer the Nbr of DL LBT failure from DU to CU?**

Opt1: Reusing Access and Mobility Indication procedure

Opt2: Introduce a new non-UE associated procedure

Opt3: Reusing UE context setup procedure from DU to CU`

**Discussion:**

1. **Do we need a request as in Xn?**

**Conclusion: a request from CU to DU in UE context setup request is needed.**

1. **Procedure to transfer the metric**

Option 3 does not work since the metric is not available yet.

38, 401, 8.2.1.1, setup 4 is before RRC reconfiguration.

**A new message is much clear.**

1. **Dedicated message**

UE associated vs non-UE associated?

Is it collected in a real time manner?

Non UE associated message with UE IDs similar as XN,

Opt1: Reusing Access and Mobility Indication procedure

Opt2: Introduce a new non-UE associated procedure

DU-CU Access and Mobility Indication procedure?

**Do we need to update the existing one?**

Option 1: DU-CU Measurement Information Transfer?

Option 2: DU-CU Access and Mobility Indication?

**Do we need to transfer this info to source DU from source CU?**

No, for now.

**A request in UE context modification request at the source side?**

For intra DU mobility, it is needed to add a request in the UE Context mod request.

In F1AP, examples for different procedures in DL and UL:

1. DU-CU TA INFORMATION TRANSFER/CU-DU TA INFORMATION TRANSFER



1. DL RRC Message Transfer/UL RRC Message Transfer



1. DU-CU Radio Information Transfer/CU-DU Radio Informatino Transfer
2. DU-CU Cell Switch Notification/CU-DU Cell Switch Notification

In NGAP,

1. Uplink RAN Status Transfer/ Downlink RAN Status Transfer
2. Uplink RAN Early Status Transfer/ Downlink RAN Early Status Transfer

3) Downlink NAS Transport/UL NAS Transport

4) Uplink RAN Configuration Transfer/ Downlink RAN Configuration Transfer

5) Uplink RIM Information Transfer/DL RIM Information Transfer

In XnAP,

None.

In X2AP:



Figure 8.7.1.2-1: eNB Initiated EN-DC X2 Setup, successful operation



# Conclusion

# Reference