**3GPP TSG-RAN WG3 Meeting #125 R3-244706**

**Maastricht, Netherlands, 19 – 23 August 2024**

Agenda Item: 21.2

Source: Nokia (moderator)

Title: Summary of Offline Discussion for CB: # XR2\_NRDC

Document for: Discussion

# Introduction

**CB: # XR2\_NRDC**

* **Discuss open issues above and other issues is any**
* **Provide CRs to capture agreements**

(moderator - Nok)

Summary of offline disc [R3-244706](file:///C%3A%5CTemp%5CRAN3%20docs%5C125%5CInbox%5CDrafts%5CCB%20%23%20XR2_NRDC%5CInbox%5CR3-244706.zip)

# For the Chair’s Notes

**Agree the following TPs:**

# Discussion

## PDU Set based handling

Notes from online session:

**Turn WA to agreement?**

**WA: SN reports the PDU Set based Handling Indicator in S-NG-RAN node Addition Preparation procedure and M-NG-RAN node initiated S-NG-RAN node Modification Preparation procedure for the MN-terminated SCG bearer, SN-terminated MCG bearer and SN-terminated SCG bearer.**

**Whether to support per-node PDU Set based Handling Indicator over NG?**

**Q1: Please share your view on 1) whether turn above WA to agreement. 2) whether support per-node PDU Set based Handling Indicator over NG.**

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| **Company** | **Comment** |
| Nokia | We agree to turn the WA to agreement, and the related XnAP TP.For per-node indicator over NG, no strong view. We can accept the majority view.  |
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**Summary**

**Offline discussion concluded to turn the WA to agreement, and no NGAP enhancement.**

**Lenovo will prepare TP to BL CR for TS38.423 to capture the agreement.**

**Potential proposals:**

## DL PSI based Discard coordination

Notes from online session:

**For DL, MN/SN notifies SN/MN whether the DL PSI based discard is configured or not via XnAP signaling.**

**RAN3 to introduce new notification over F1AP and F1-U for DL PSI Discard.**

**Moderator suggest to use following TP as starting point.**

* XnAP TP based on [R3-244531](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244519.zip) (CMCC will upload the draft TP)
* F1AP TP based on [R3-244519](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244519.zip) (Huawei will upload the draft TP)
* F1-U TP based on [R3-244520](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_125%5CDocs%5CR3-244519.zip) (Huawei will upload the draft TP)

**Q2: Please share your view on the draft TPs in the folder.**

**Summary**

**Potential proposals:**

## End of Data Burst Indication to the peer gNB

Contribution (R3-244109) proposed source gNB should forward the End of Data Burst Indication to target gNB during the data forwarding for handover. (Nokia will upload the draft TS38.300 TP based on R3-244109)

Contribution (R3-244531) proposed to clarify that the End of Data Burst Indication is provided to the corresponding node when the Data Burst is going to transmit through the corresponding node

* Moderator consider this is a small update, and suggest it can be merged in the same TS 37.340 TP for Clause **3.4.**

**Q3: Please share your view on the draft TS 38.300 CR in the folder**

**Summary**

**Potential proposals:**

## Burst Arrival Time reporting

It is unclear on whether the SN can receive the BAT from the MN.

(ZTE will upload the draft TS37.340 TP based on R3-244471)

**Q3: Please share your view on whether SN can receive the BAT from the MN. If yes, please share your view on the draft TS 37.340 TP (based on *R3-244471***) **in the folder.**

* Please note the TS 37.340 TP also includes the proposal from R3-244531 related to End of Data Burst indication.

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| **Company** | **Comment** |
| Nokia | Yes. TP for 37.340 is needed.  |
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**Summary**

**Potential proposals:**

## L4S

Contribution (R3-244301) proposed following:

- The node hosting PDCP takes into account the UL Congestion Information and/or DL Congestion information reported by the corresponding node to derive a single value of the UL Congestion Information and/or DL Congestion information and to to further send it to the UPF

(Ericsson will upload the draft TS38.425 CR based on R3-244301)

**Q4: Please share your view on the draft TS 38.425 CR (based on R3-244301) in the folder.**

**Summary**

**Potential proposals:**

## ECN marking for SN-initiated modification procedure

Contribution (R3-244268) describes:

The SN may trigger SN-initiated procedures to modify the configuration for XR services, and the ECN marking status may thus change (e.g. due to change of SN-DU). Therefore IEs added into the “S-NODE MODIFICATION REQUEST ACKNOWLEDGE” message for ECN marking should be copied into the “S-NODE MODIFICATION REQUIRED” message.

(CATT will upload the draft TS38.423 TP based on R3-244268)

**Q5: Please share your view on following proposal:**

**IEs added into the “S-NODE MODIFICATION REQUEST ACKNOWLEDGE” message for ECN marking should be copied into the “S-NODE MODIFICATION REQUIRED” message.**

 **In case you agree with the proposal, please share your view on the draft XnAP TP based on R3-244268 in the folder.**

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| **Company** | **Comment** |
| Nokia | Proposal is ok.  |
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**Summary**

**Potential proposals:**

## UE assistance information

Contribution (R3-244546) describes:

The ul-TrafficInfo IE is included in the UEAssistanceInformation message. The ul-TrafficInfo includes more information for XR QoS flow, such as jitter range, burst arrival time, traffic periodicity and so on. These information can help SN to configure a proper DRX because the gNB decides the parameters of DRX configuration considering both UL and DL traffic information. But currently, UEAssistanceInformation is not included in S-NODE ADDITION REQUEST message and/or S-NODE MODIFICATION REQUEST message.

Contribution (R3-244546) proposes: adding the UE assistance information in S-NODE ADDITION REQUEST and/or S-NODE MODIFICATION REQUEST SN to help SN for DRX configuration.

**Q5: Please share your view on following:**

adding the UE assistance information in S-NODE ADDITION REQUEST and/or S-NODE MODIFICATION REQUEST SN to help SN for DRX configuration.

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| **Company** | **Comment** |
| Nokia | Not sure why it is needed. MN can initiate the Xn RRC Transfer procedure to transfer the UE assistance information. |
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**Summary**

**Potential proposals:**

## Any other issues

**Please add any other issues that you want to discuss.**

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| **Company** | **Comment** |
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**Summary**

**Potential proposals:**

# 2nd Round (TBD)

***Please add your comments in the draft TP.***

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| **Company** | **Comment** |
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# References

1. R3-243358, (TP to BL CR for TS 38.423) Discussion on the support of XR in NR-NR DC (Nokia, Nokia Shanghai Bell)
2. R3-243407, (TP to BLCR for 37.340) Burst Arrival Time handling in NR-DC (Lenovo, Samsung, ZTE, Qualcomm Incorporated, Xiaomi, Huawei, CATT)
3. R3-243345, (TP for NR\_XR\_Ph3 BL CR) Enhancement for NR-DC support of XR (Huawei)
4. R3-243173, R19 XR DC Signaling Enhancements (Qualcomm Incorporated)
5. R3-243239, (TP to TS 38.423 on Support of XR in DC) ECN Marking/Congestion Information Reporting on SN Terminated bearer (NEC)
6. R3-243240, (TP to TS 38.423 on Support of XR in DC) PSI-Based SDU Discarding (NEC)
7. R3-243408, Remaining issues on PSI discard, ECN marking and End of Data Burst (Lenovo)
8. R3-243483, (TP to BLCR for 38.423) Remaining issues for support of XR in DC (Ericsson)
9. R3-243485, Support for L4S in DC (Ericsson, Deutsche Telekom, Charter, BT)
10. R3-243486, Support for L4S in NR-NR DC (Ericsson, Deutsche Telekom, Charter, BT)
11. R3-243487, (TP to TS38.423) Support for L4S in DC (Ericsson, Deutsche Telekom, Charter, BT)
12. R3-243598, Discussion on support XR in DC (ZTE)
13. R3-243599, (TP to TS 37.340 and 38.423) Support XR in DC (ZTE)
14. R3-243640, Discussion on XR in DC (CATT)
15. R3-243652, Discussion on support XR in DC (Samsung)
16. R3-243653, (TP to TS 38.423) Support XR in DC (Samsung)
17. R3-243728, (TP to TS 38.423 and 37.340) Support of XR in DC (CMCC)
18. R3-243729, Discussion on support XR in DC (CMCC)