**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:\Temp\RAN3%20docs\125\Inbox\Drafts\CB%20%23%20XR2_NRDC\Inbox\R3-244706.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:\会议硬盘\TSGR3_125\Docs\R3-244519.zip) (CMCC will upload the draft TP)
* F1AP TP based on [R3-244519](file:///D:\会议硬盘\TSGR3_125\Docs\R3-244519.zip) (Huawei will upload the draft TP)
* F1-U TP based on [R3-244520](file:///D:\会议硬盘\TSGR3_125\Docs\R3-244519.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. |
| Samsung | Yes. |
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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. |
| Samsung | No strong view, and not sure if different SN-DCs under the same SN-CU can have different ECN marking status. |
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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. |
| Samsung | In our understanding, if the MN receives UAI from UE, it implicitly means that the UE expects the DRX configuration. If MN receives UAI, it is better for MN to send it to SN when it decides to add SN, i.e. during S-Node addition request procedure. In this way, the SN can configure the DRX for UE as soon as possible. We think it is a little late if UAI is sent from MN to SN via Xn RRC transfer. |
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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)