3GPP TSG-RAN WG3 #127bis R3-252340

Wuhan, CN, 7 – 11 Apr. 2025

Agenda Item: 18.2. Support LP-WUS Indicating Paging Monitoring

Source: NTT DOCOMO INC.

Title: Summary of discussion on LP-WUS

Document for: Discussion, agreement

# For the Chairman’s Notes

## TPs

TBD

## LS on security concern on extension of UE\_ID [[**R3-251644**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251644.zip), [**R3-251645**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251645.zip)]

TBD

# Introduction

**The maximum number of subgroups is decided to 31.**

1. **range of LP-WUS CN Subgroup ID is from 0 to 30: Samsung, E///, Nokia, HW,**
2. **range of LP-WUS CN Subgroup ID is from 1 to 31: ZTE,**

**Turn the working assumption into agreement and remove the FFS on the presence of the LP-WUS Subgrouping Support Indication IE per cell in the F1AP Paging message.**

**RAN3 to update the stage2 BLCR by removing the restrictions of LP-WUS in case of emergency PDU session.**

CB: # LP\_WUS

- check with update TP in 1665.

- discuss on the draft to SA3, and capture the agreements.

- update the TPs according to offline agreements.

**(Moderator- NTT DCM)**

**Offline discussion summary in** [**R3-252340**](Inbox%5CR3-252340.zip)

# Discussion

## TPs

* R3-251665: TP for BL CR for TS 38.473 (Nokia) rev in R3-252342
* R3-251754: TP for BL CR for TS 38.300 (HW) rev in R3-25xxxx

## LS on security concern on extension of UE\_ID [[**R3-251644**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251644.zip), [**R3-251645**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251645.zip)]

It is proposed by CATT that there may be security concern to extend *Extended UE Identity Index* IE as illustrated as following:

However, the increased length of UE\_ID (i.e., truncated 5G-S-TMSI) may lead to security risk. Note that delivering the entire 5G-S-TMSI over F1/Xn interface may cause some security issues, and that is the reason why the truncated 5G-S-TMSI is used from R15. Thus, if RAN3 assumes increasing the length of truncated 5G-S-TMSI for LP-WUS subgrouping is needed, it should ask SA3 whether there is any concern.

Observation 3: Further increasing the length of UE\_ID delivered over F1/Xn interfaces may have security risk.

Can we agree with following proposal?

**Proposal 1: RAN3 should send an LS to SA3 to ask if there is any concern on further increasing the length of UE\_ID over F1/Xn interfaces for LP-WUS subgrouping.**

# Conclusions

TBD

# References

## CRs

1. [**R3-251568**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251568.zip), TS 38.470, Qualcomm
2. [**R3-251569**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251569.zip), TS 38.473, Huawei
3. [**R3-251570**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251570.zip), TS 38.300, Vivo
4. [**R3-251571**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251571.zip), TS 38.423, Ericsson
5. [**R3-251572**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251572.zip), TS 38.413, ZTE

## Contributions

1. [**R3-251625**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251625.zip), Qualcomm

1. **[R3-251644](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251644.zip)**, CATT
2. [**R3-251645**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251645.zip), CATT (LS out)
3. [**R3-251664**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251664.zip), Nokia
4. [**R3-251665**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251665.zip), Nokia (TP for 38.473)
5. [**R3-251693**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251693.zip), NEC
6. [**R3-251698**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251698.zip), ZTE
7. [**R3-251699**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251699.zip), ZTE (TP for 38.413)
8. [**R3-251754**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251754.zip), Huawei (TP for 38.413/38.423/38.300)
9. [**R3-251755**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251755.zip), Huawei (TP for 38.473)
10. [**R3-251756**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-251756.zip), Huawei (LS out)
11. [**R3-252023**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-252023.zip), Ericsson
12. [**R3-252024**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-252024.zip), Ericsson (TP for 38.423)
13. [**R3-252147**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-252147.zip), NTT Docomo
14. [**R3-252181**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-252181.zip), CMCC (TP for 38.473)
15. [**R3-252209**](https://www.3gpp.org/ftp/TSG_RAN/WG3_Iu/TSGR3_127-bis/Docs/R3-252209.zip), Samsung