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**](file:///C%3A%5CUsers%5Cezlyamo%5CAppData%5CLocal%5CTemp%5Cfz3temp-2%5CInbox%5CR3-252340.zip)

# Discussion

## TPs

* (Nokia) TP for BL CR for TS 38.473: R3-251665 rev in R3-252342
* (HW) TP for BL CR for TS 38.300: R3-251754 rev in R3-252362

Companies can provide comments below, or make updates to the draft TPs in the folder.

|  |  |
| --- | --- |
| Company | Comment |
| Ericsson | TP look good, please add E/// a co-source, thank you! |
| Qualcomm | TPs look good. |
|  |  |

## 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.**

Companies can provide comments below:

|  |  |
| --- | --- |
| Company | Comment |
| Huawei | Too early to send LS since we have not decided the exact size of the extended UE ID index or even the format (part of 5GS-TMSI or hashed ID to be decided by RAN2).  |
| Ericsson | Agree with Huawei. RAN2 has not reached conclusion yet. |
| CATT | RAN2 has no conclusion because some companies in RAN2 considered that RAN3 may send LS to SA3 for confirmation, so they would like to postpone the subgrouping issue in this meeting. It’s not early to send the LS, there are only two meetings left. If we send the LS, RAN2 can take the reply of SA3 into account in the next meeting, and we think the reply LS will be beneficial for RAN2 to converge on a suitable solution.  |
| Qualcomm | Agree with the comments above |
|  |  |

Moderator summary after offline discussion:

RAN3 will not send an LS to SA3 regarding this issue at least in this meeting.

**Whether Extended UE Identity Index or Hashed UE\_ID is used and how many bits are needed for UE\_ID is pending on RAN2.**

# 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