**3GPP TSG-RAN WG2 Meeting #114-e *draft R2-2106585***

**Online, May 19th - 27th, 2021**

**Agenda item: 6.3.4**

**Source: CATT**

**Title:** **Report of [AT114-e][615][POS] UE capability for SRS activation MAC CE (CATT)**

**Document for: Discussion and Agreement**

# 1 Introduction

This is to report the result of the following email discussion in RAN2#114-e Meeting.

* [AT114-e][615][POS] UE capability for SRS activation MAC CE (CATT)

Scope: Determine if a UE capability is needed for support of the extension of positioning SRS resource ID in MAC, and if needed, evaluate the CRs in R2-2104798 and R2-2104799.

Intended outcome: Agreed CRs if necessary, and report in R2-2106585

Deadline: Thursday 2021-05-27 0000 UTC

# 2 Contact Information

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| Company | Contact: Name (E-mail) |
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# 3 Discussion

The CR Corrections on SP Positioning SRS Activation and Deactivation MAC CE was agreed with interoperability revision in the coversheet [1] at RAN2#114-e.

R2-2104797 Corrections on SP Positioning SRS Activation and Deactivation MAC CE CATT CR Rel-16 38.321 16.4.0 1072 3 F NR\_pos-Core R2-2104412

Companies here will continue to discuss and determine if a UE capability is needed for support of the extension of positioning SRS resource ID in MAC. If needed, the CRs in [R2-2104798](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_114-e/Docs/R2-2104798.zip) and [R2-2104799](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_114-e/Docs/R2-2104799.zip) are evaluated as well.

If we want backward compatibility, i.e. both supporting legacy UEs with 5bit resource ID and the new version UEs with 6bits resource ID in MAC CE, UE capability for the extension is expected here. A BC solution with the reserved bit and it would be more consistent to have the capability.

On the other hand, some company think there is no need to introduce the UE capability, because there is no implementation of UE which support the 5bits MAC CE in the field.

So companies here will discuss and determine if a UE capability is needed for the agreed MAC CR on the extension of positioning SRS resource ID in MAC:

* Option 1 : UE capability for the extension:
  + Introducing UE capability for the extension: to create one bit in UE capability indicating UE support this 6bits MAC CE or not.
    - When gNB receives the UE capability supporting 6bits MAC CE, gNB will set the resource ID accordingly with 6bits MAC CE. Otherwise, gNB will set the resource ID still with 5bits format in MAC CE.
  + The CRs on UE’s capability in [R2-2104798](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_114-e/Docs/R2-2104798.zip) and [R2-2104799](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_114-e/Docs/R2-2104799.zip) is available to review in the draft folder
* Option 2: No UE capability for the extension:
  + The extension bit is introduced without capability.

**Q1. Which option do you prefer on a UE capability for the extension? In the comment field please explain your preference.**

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| Company | Option 1/ Option 2 | Detailed Comments |
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Summary:

**Q2. Do you have any comments/text suggestion on the capability CRs [2][3] if you agreed with a UE capability needed for support of the extension of positioning SRS resource ID in MAC?**

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Summary:

# 4 Conclusion

**TBD**

# 5 References

[1] R2-2104797 Corrections on SP Positioning SRS Activation and Deactivation MAC CE CATT CR Rel-16 38.321 16.4.0 1072 3 F NR\_pos-Core R2-2104412

[2] [R2-2104798](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_114-e/Docs/R2-2104798.zip) Corrections on the UE capability of indication on supporting the extension of Positioning SRSresourceID CATT CR Rel-16 38.306 16.4.0 0572 1 F NR\_pos-Core R2-2104417

[3] [R2-2104799](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_114-e/Docs/R2-2104799.zip) Corrections on the UE capability of indication on supporting the extension of Positioning SRSresourceID CATT CR Rel-16 38.331 16.4.1 2580 1 F NR\_pos-Core R2-2104418

[4] R2-2105966 "View on Correction for SP Positioning SRS Activation and Deactivation MAC CE" Ericsson discussion Rel-16 38.321