3GPP TSG-RAN WG3 #114-e R3-215840
Online, 1-11 November 2021

Agenda Item: 31.2.4

Source: Ericsson (moderator)

Title: CB: # 37\_RxTxMeasureReport

Document for: Discussion

# Introduction

**CB: # 37\_RxTxMeasureReport**

**- Check RAN1 progress and details**

(E/// - moderator)

# To the chair’s notes

**R3-216065 revision of R3-215263 is endorsed**

**R3-216063 revision of R3-215267 is endorsed**

# Discussion on RAN1 LS and progress

RAN1 has discussed NR Positioning support for TA measurement in NR UL E-CID. The following agreement was made by RAN1 and communicated to RAN2 and RAN3 via the LS in [1].

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| AgreementDefine a new timing advance measurement for NR as below* + Timing advance (TADV) is defined as the time difference TADV = TgNB-RX –TgNB-TX, where
		- TgNB-RX is the Transmission and Reception Point (TRP) [18] received timing of uplink subframe #*i* containing PRACH transmitted from UE, defined by the first detected path in time
		- TgNB-TX is the TRP transmit timing of downlink subframe #*j* that is closest in time to the subframe #*i* received from the UE
		- The detected PRACH is used to determine the start of one subframe containing that PRACH

Send an LS to RAN2 and RAN3 with the agreement to add TADV reporting for NR UL E-CID so that their corresponding specification changes can be updated. LS is endorsed in R1-2110601. |

The CRs in [2] have captured the above agreement and propose to add the NR Timing advance IE in UL NR E-CID procedures for NRPP and F1AP.

The encoding is proposed to be the same value as for E-UTRA Timing advance (i.e., INTEGER (0.. 7690)).

**Do companies have any comment on the NRPPa CR [2] and the proposed changes (cover page, ASN.1)? Can the CR be endorsed?**

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| **Company** | **Comment** |
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**Do companies have any comment on the companion F1AP CR [3] and the proposed changes (cover page, ASN.1)? Can the CR be endorsed?**

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| **Company** | **Comment** |
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# Conclusion

**Revisions have been added to both the CRs cover page to add ZTE as co-source company.**

**Revision to the F1AP CR in R3-215267 to add the criticality and the assigned criticality of the new IE.**

# References

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| **NR Timing Advance for UL NR E-CID** |
| **[1]** | [R3-215787](Inbox%5CR3-215787.zip) | LS on NR Positioning support for TA measurement in NR UL E-CID (RAN1) | LS inMove to 31.2.4 |
| **[2]** | [R3-215263](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114-e%5CDocs%5CR3-215263.zip) | Addition of NR Timing Advance reporting for NR UL E-CID [NRTADV] (Ericsson, NTT Docomo, Polaris Wireless, Verizon, China Telecom, FirstNet, Deutsche Telekom, Intel Corporation, CATT, Nokia, Nokia Shanghai Bell, Huawei, ZTE) | CR0042r, TS 38.455 v16.5.0, Rel-17, Cat. B |
| **[3]** | [R3-215267](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_114-e%5CDocs%5CR3-215267.zip) | Addition of NR Timing Advance reporting for NR UL E-CID [NRTADV-F1] (Ericsson, CATT, NTT Docomo, Polaris Wireless, Verizon, China Telecom, FirstNet, Deutsche Telekom, Intel Corporation, Nokia, Nokia Shanghai Bell, Huawei, ZTE) | CR0817r, TS 38.473 v16.7.0, Rel-17, Cat. B |