3GPP TSG-RAN WG2 #116bis-e R2-220xxxx

eMeeting, 17th – 25th January, 2022

Agenda Item: 8.24.1

Source: MediaTek Inc.

**Title: Summary of [AT116bis-e][041][NR17] HO with PSCell (MediaTek)**

Document for: Discussion and decision

# 1 Introduction

This is report of the following e-mail discussion:

* [AT116bis-e][041][NR17] HO with PSCell (MediaTek)

 Scope: Treat R2-2200124, R2-2201673 (late), make a reply LS.

 Intended outcome: Approved LS out

 Deadline: Friday W1

**Comment deadline:** Thursday Week 1, 1200 UTC

# 2 Discussion

In [1], RAN4 asked RAN2 what should be the timing reference cell for SMTC of target NR PSCel in NR SA handover to EN-DC.

RAN4 has discussed the requirement for HO with PSCell from NR-SA to EN-DC. If SMTC of target NR PSCell is configured by source NR PCell in *RRCConnectionReconfiguration* of *targetRAT-MessageContainer*, it is unclear whether UE shall follow the SMTC window based on the reference timing of target E-UTRA PCell or not.

RAN2 actually already discussed this in last meeting and a draft reply LS is provided in R2-2201673 [2] to simply reply the RAN2 agreement. Companies are invited to check whether you are okay to send the reply LS and any comment on the content in R2-2201673 (copied below for reference).

**-----------------------------------------------------------------------------**

RAN2 would like to thank RAN4 for the LS on HO with PSCell from NR SA to EN-DC (R4-2120298). RAN2 has already discussed the SMTC timing reference issue in RAN2#116 and concluded as

* **[010] RAN2 confirms that UE applies the PSCell SMTC configuration based on the timing reference of target EUTRA PCell for the case of NR SA to EN-DC HO with PSCell addition (if explicit SMTC configuration is present in** RRCConnectionReconfiguration**).**

So, the timing reference cell is E-UTRA PCell in the concerned scenario.

**-----------------------------------------------------------------------------**

**Question 1: Do companies agree to send reply LS as in R2-2201673? Is there any comment on the content ?**

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| **Company** | **Agreed or not** | **Comments** |
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Summary:

# 3 Conclusions

Base on the discussion in section 2, we propose the following:

**Proposal 1:**

# 4 References

[1] R2-2200124, “LS on HO with PSCell from NR SA to EN-DC (R4-2120298; contact: MediaTek)”, RAN4