3GPP TSG RAN WG 2 Meeting #127bis R2-240xxxx

Hefei, China, 14th - 18th October, 2024

**Title: [Draft] Reply LS on Early TA acquisition for the inter-DU scenario**

**Response to: R2-2407924/R3-244793**

**Release: Rel-18**

**Work Item: NR\_Mob\_enh2-Core**

**Source: Google (to be RAN2)**

**To: RAN3**

**Cc: RAN1**

**Contact person: Frank Wu**

**frankwu<atmark>google.com**

**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**Attachments:**

# 1 Overall description

RAN2 thanks RAN3 for their LS on early TA acquisition for the inter-DU scenario.

Based on the discussion in RAN2, RAN2 would like to provide the following answers to RAN3’s questions.

*Question 1: Are shared preamble resources from the RAN2 agreement, consisting of the combination of SSB index, PRACH mask index, and preamble index, necessary, or is the preamble index list sufficient?*

Answer: The preamble index list is sufficient for early TA acquisition.

*Question 2: When using the RA-RNTI, is “SSB Positions In Burst” a necessary parameter to associate the TA value with a specific UE?*

Answer: Yes, the ‘SSB Positions In Burst’ is a necessary parameter for the source gNB-DU to associate the TA value with a specific UE. This parameter should be signalled to the source gNB-DU from gNB-CU via F1AP signalling.

# 2 Actions

**To RAN3**

**ACTION:** RAN2 kindly asks RAN3 to take the above answers into consideration.

# 3 Dates of next TSG RAN WG 2 meetings

TSG RAN WG2 Meeting #128 18 – 22 November 2024 Orlando, USA

TSG RAN WG2 Meeting #129 17 – 21 February 2025 Athens, Greece