# 3GPP TSG-RAN1 Meeting #120

Athens, Greece, 17th - 21st February 2025

R1-2501632

Title: DRAFT LS on time location of on-demand SSB for SCell

Release: Rel-19

Work Item: Netw\_Energy\_NR\_enh

**Source:** LG Electronics [RAN WG1]

To: RAN WG4
Cc: RAN WG2

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Attachments:

### 1. Overall Description:

RAN1 discussed the relation in terms of time location between the always-on SSB and on-demand SSB and agreed the following in RAN1#120.

### Agreement

Regarding the relation in terms of time location between the always-on SSB and on-demand SSB,

- For the case when the center frequency locations of always-on SSB and on-demand SSB are same,
  - Alt Time-C: RAN1 specification has no restriction with regards to overlapping
  - o From RAN1 perspective,
    - Alt Time-C1: The case that, during OD-SSB transmission, the union of AO-SSB transmission and OD-SSB transmission has a periodic time domain pattern is supported (the interval between SSB bursts is even and supported in legacy specification).
    - Alt Time-C2: The case that, during OD-SSB transmission, the union of AO-SSB transmission and OD-SSB transmission has a non-periodic time domain pattern is supported.
  - It is up to RAN4 to define requirements, if any, corresponding to both or either of Alt Time-C1 or Alt Time-C2
  - At least the following is supported: PBCH payload for the same SSB index (other than SFN index, half frame index) is the same for AO-SSB and OD-SSB
    - FFS: Whether half frame index is the same or different for AO-SSB and OD-SSB
- For the case when the center frequency locations of always-on SSB and on-demand SSB are different,
  - o Alt Time-C: RAN1 specification has no restriction with regards to overlapping
  - UE assumes that frequency resources of always-on SSB are not overlapped with those of ondemand SSB in frequency domain.

- o AO-SSB and OD-SSB are located in the same BWP
- FFS: PBCH payload for the same SSB index (other than SFN index, half frame index) should be the same for AO-SSB and OD-SSB
- NOTE: AO-SSB periodicity is not adapted

### 2. Actions:

### To RAN WG4

**ACTION:** RAN1 respectfully ask RAN4 to take the above into consideration.

## 3. Date of Next TSG-RAN1 Meetings:

TSG RAN1 Meeting #120bis 7 - 11 April 2025 Wuhan, China

TSG RAN1 Meeting #121 19 - 23 May 2025 St. Julian, Malta