**3GPP TSG-RAN WG4 Meeting # 110-bis R4-240xyz**

**Changsha, China, 17th –26th April, 2023**

**Title:** WF on power boosting feature in Rel-18

**Agenda Item:** 6.17.1.2

**Source: Ericsson**

**Document for:** Approval

RAN4 further discuss the applicability of the power boosting feature related to CA configuration below:

* Case A: FR1 CA with DL CA combination configured and with a single uplink CC used for transmission.
* Case B: FR1 inter-band [and intra-band] UL CA, at least one indicated band supports the power boosting, where a single CC is used for transmission in each power boosted uplink band.
* Case C: FR1+FR2 UL CA, FR1+FR2 DC, FR1+FR1 DC, power boosting feature is supported in an FR1 NR band, where a single CC is configured in this uplink band.

**Issue 1: in which condition the Case A supported in Rel-18**

* Option A-1: FR1 CA with DL CA combination and with a single uplink CC configured.
* Option A-2: FR1 CA with DL and UL CA combination configured and with a single uplink CC within a cell activated.
* Option A-3: FR1 CA with DL and UL CA combination configured and with a single uplink CC within a cell scheduled for transmission.

**Issue 2: MSD impact due the enabling of the power boosting feature for case A**

* Proposals
  + Option 1: MSD impact due to enabling power boosting feature will not be evaluated in RAN4 and will not be specified in RAN4 specification, how to capture this in RAN4 specification is FFS
  + Option 2: Others

**Issue 3: Further discuss how to support the case B and Case C**

* Proposals:
* Option 1: TEI
* Option 2: TBD