

**Agenda Item: 9**  
**Source: RAN4**  
**To: TSG RAN WG2, TSG RAN WG1**  
**Title: Proposed Response to Liaison Statement on impact of gated DPCCH at cell boundaries.**

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RAN WG4 has reviewed your LS (R4-99660), and a number of additional inputs to RAN4 clarifying both the concept of Gated DPCCH transmission, as well as demonstrating the performance advantages. RAN4 understands that RAN1 has accepted this as a working assumption, and that a proposal for the required signalling was proposed to RAN2.

RAN4 understands that gated DPCCH transmission has some benefits of UL/DL interference reduction, UL/DL capacity increase and UE battery life expansion in case of packet transmission.

RAN WG4 confirms the RAN2 concerns, that if the UE is operating at maximum power at the cell boundary, the output power cannot be increased. More specifically, the margins as defined on the maximum output power (i.e.  $\pm 2$  dB for 21 dBm UE, -3,+1 dB for the higher output power UE classes) cannot be used for any required increased output power, as these margins are required for other factors including manufacturing spread, aging effects, etc.

This applies for gated DPCCH transmission, as well as for UL compressed (slotted) mode.

RAN4 invites RAN1 and RAN2 to improve the solution, so it does not require an increased UE output power for those cases where the UE is operating at its maximum output power.