**3GPP TSG-RAN WG3 Meeting #111-e R3-211207**

**E-meeting, 25 Jan – 5 Feb 2021**

**Title:** (TP for SON BL CR for TS 38.401): Stage 2 update for RACH optimization

**Source:** Huawei

**Agenda item:** 10.2.1.7

**Document Type:** Other

# 1. Introduction

In last meeting, it was agreed to send neighbour cells’ PRACH Configurations to the gNB-DU in F1AP. Since the neighbour cells may be from neighbour gNBs or from the other DUs connected to the same gNB-CU. However, the current stage 2 description in TS 38.401 seems not covering all the cases.

*The gNB-DU signals the PRACH configuration per-cell to gNB-CU. The gNB-CU may forward a limited set of neighbour cell’s PRACH configurations received from neighbour gNB-CU to the gNB-DU to resolve the configuration conflict.*

**Proposal: To update the stage 2 description to enable the gNB-CU sends neighbour cells’ PRACH configurations to the gNB-DU from not only neighbour gNBs but also its other gNB-DUs connecting to the gNB-CU.**

# 3. Conclusion

Based on the discussion in this paper, we propose the following:

**Proposal: To update the stage 2 description to enable the gNB-CU sends neighbour cells’ PRACH configurations to the gNB-DU from not only neighbour gNBs but also its other gNB-DUs connecting to the gNB-CU.**

The simple TP is provided in the Annex.

# Annex – TP for SON BLCR for TS 38.401

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## 7.5 RACH Optimisation Function

The RACH Optimization Function in non-split gNB case is specified in TS 38.300 [2].

In case of split gNB architecture, RACH configuration conflict detection and resolution function is located at the gNB-DU. To perform RACH optimisation at gNB-DU, gNB-CU sends the RACH report reported by the UE to gNB-DU via F1AP signalling. The gNB-DU signals the PRACH configuration per-cell to gNB-CU. The gNB-CU may forward to a served gNB-DU a limited set of neighbour cell’s PRACH configurations received from neighbour gNBs and other served gNB-DUs to the gNB-DU to resolve the configuration conflict.

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