**3GPP T****SG-RAN WG2 Meeting #117-e R2-xxxxxxx**

**e-Meeting, 21 February - 03 March 2022**

**Title:** Reply LS on PDCCH Blind Detection in CA

**Response to:** LS R1-2112833(R2-22000679) from RAN1

**Release:** Rel-16

**Work Item:** NR\_L1enh\_URLLC-Core

**Source:** RAN2

**To:** RAN1

**CC:**

**Contact Person:**

**Name:** Tong Sha

**Tel. Number:**

**E-mail Address:** shatong3@hisilicon.com

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

**Attachments:**

**1. Overall Description:**

RAN2 would like to thank RAN1 for their reply LS on PDCCH blind detection in CA (R1-2112833).

According to the RAN1 LS, there is a note 2 that one combination of (pdcch-BlindDetectionMCG-UE-r15, pdcch-BlindDetectionSCG-UE-r15, pdcch-BlindDetectionMCG-UE-r16, pdcch-BlindDetectionSCG-UE-r16) reported by a UE for FG 11-2e corresponds to one combination of (pdcch-BlindDetectionCA-r15, pdcch-BlindDetectionCA-r16) reported by the UE for FG 11-2c or FG 11-2g.

RAN2 defined two separate PDCCH blind detection capabilities for MCG (pdcch-BlindDetectionMCG-UE-Mixed-r16) and SCG (pdcch-BlindDetectionSCG-UE-Mixed-r16). In current RAN2 specification, there is no requirement for UE supporting NR-DC to report the capabilities for both MCG and SCG. RAN2 respectively asks RAN1 to clarify whether the wording above means that UE is required to report both capabilities for MCG and SCG ? RAN2 concerns if adding such restriction leads to a non-backward compatible change for Release-16.

RAN2 would also like to point out that regarding note 3 and note 4, in existing RAN2 specification there is no such restriction that only one of FG 11-2c and FG 11-2g is reported if supported, and no restriction that only one of FG 11-2a and FG 11-2f is reported if supported. To ensure backward compatibility, RAN2 respectively asks RAN1 to clarify how to interpret it if the UE reports both of FG 11-2c and FG 11-2g, or both of FG 11-2a and FG 11-2f?

**2. Actions:**

**To: RAN1**

**ACTION:**

RAN2 kindly asks RAN1 to take the above information into account and provide the feedback for the questions above.

**3. Date of Next RAN2 Meetings:**

RAN2#118-e 16 May - 27 May 2022 Online

RAN2#119 22 August - 26 August 2022 Online