3GPP TSG-RAN WG4 Meeting #104-e R4-2215091

Electronic Meeting, Aug 15 – Aug 26, 2022

**Title:** draft Reply LS on *ModifiedMPR-Behaviour* clarification for different power classes

**Response to:** R5-223635

**Release:** Rel-16

**Work Item:** NR\_RF\_FR2\_req\_enh-UEConTest

**Source:** RAN4

**To:** RAN5

**Cc:**

**Contact Person:**

**Name:** Liu Ye

**E-mail Address:** leo.liuye@huawei.com

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

**Attachments**: N/A

**1. Overall Description:**

RAN4 would like to thank RAN5 for clarification questions on *ModifiedMPR-Behaviour* for different power classes.

With regard to the questions raised by RAN5, the answers from RAN4 are as follows:

**Question a)** *For Rel-15 PC3 UE, is the MPR as defined in 38.101-2 v16.2.0 applicable if the UE supports modifiedMPR-Behaviour bit 0 UE capability?*

**Answer:** Yes, for Rel-15 PC3 UE, MPR defined in 38.101-2 v16.2.0 is also applicable if the UE reports modifiedMPR-Behaviour bit 0 UE capability, but this modified MPR is optional for a Rel-15 UE.

**Question b)** *For Rel-15 PC2 and PC4 UEs, is modifiedMPR-Behaviour bit 0 capability applicable?*

**Answer:** No, *modifiedMPR-Behaviour* bit 0 capability is not applicable for Rel-15 PC2 and PC4 UEs.

**Question c)** *For Rel-16 PC3 UE, is the MPR as defined in 38.101-2 v16.2.0 mandatory or optional? In case it is mandatory then is the Rel-16 UE expected to signal modifiedMPR-Behaviour bit 0=true?*

**Answer:** No consensus reached in RAN4 yet. RAN4 will keep RAN5 updated for the conclusion of the question.

**Question d)** *For Rel-16 PC3 UE, which version of specification is taken as default MPR requirement, 38.101-2 v16.2.0 or latest version (v16.11.0 released in Apr 2022)? What are the Rel-16 MPR requirements if the UE signals respectively modifiedMPR-Behaviour bit 0=false and modifiedMPR-Behaviour bit 0=true?*

**Answer:** No consensus reached in RAN4 yet. RAN4 will keep RAN5 updated for the conclusion of the question.

**Question e)** *For Rel-16 PC2, PC4 and PC5 UEs is modifiedMPR-Behaviour bit 0 capability applicable*?

**Answer:** No, *modifiedMPR-*Behaviour bit 0 capability is not applicable for Rel-16 PC2, PC4 and PC5 UEs.

**Question f)** *For Rel-17 PC3 UE, what are the MPR requirements if the UE signals respectively modifiedMPR-Behaviour bit 0=false and modifiedMPR-Behaviour bit 0=true?*

**Answer:** For a Rel-17 PC3 UE, it shall comply with the improved MPR defined in the latest Rel-17 version of 38.101-2 and may not set this bit 0 to false.

**2. Actions:**

**To RAN5:**

**ACTION:** RAN4 respectfully asks RAN5 to take the above feedback into account for the future work.

**3. Date of Next TSG WG RAN4 Meetings:**

TSG-RAN4 Meeting#104-bis-e 10th – 19th October 2022 Online

TSG-RAN4 Meeting#105 14th – 18th November 2022 Canada