3GPP TSG RAN WG2 Meeting #109bis-e TDoc R2-200xxxx

Electronic, 20th – 30th April 2020

**Title:** **[Draft] LS on NR SCG release for power saving**

**Release: Release 16**

**Work Item: NR\_UE\_pow\_sav-Core**

**Source: MediaTek Inc.**

**To: RAN WG3**

**Cc:**

**Contact person: Pradeep Jose**

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# 1 Overall description

RAN2 has agreed to the introduction of UE assistance information (UAI) specific to the SCG as part of the work on UE power savings. Relevant agreements are copied below.

* *In MR-DC with NR SN, support SCG specific UAI for power saving, which includes drx-Preference, maxBW-Preference, maxCC-Preference, maxMIMO-LayerPreference, and minSchedulingOffsetPreference.*
* *UE implicitly can indicate a preference for NR SCG release by indicating zero number of carriers or zero aggregated maximum bandwidth in both FR1 and FR2.*
* *UE transmits SCG specific UAI for power saving in a transparent container to the MN and the MN then forwards the received container to the NR SN.*
* *In (NG)EN-DC, SCG specific UAI for power saving is transmitted on the NR leg via SRB3, if SRB3 is configured.*
* *In NR-DC, SCG specific UAI for power saving is transmitted on the SCG via SRB3, if SRB3 is configured.*

The UE can indicate a preference to release the SCG by signalling zero number of carriers or zero aggregated bandwidth in the UAI for power saving. The UAI message can be sent directly to the SN over SRB3, or in a transparent container to the MN over SRB1, which then forwards the message on to the SN. It was pointed out during RAN2 discussions that the likely action from the SN would be to initiate an SN release, for which an appropriate release cause value may not currently exist.

RAN2 requests RAN3 to consider whether an existing cause value can be reused for the SN release due to power savings, or if a new cause value is to be defined.

# 2 Actions

**To RAN WG3:**

**ACTION:** RAN2 requests RAN3 to consider whether an existing cause value can be reused for the SN release due to power savings, or if a new cause value is to be defined.

# 3 Dates of next TSG RAN WG 2 meetings

RAN2#110-e 1st – 12th June 2020 Online

RAN2#111 24th – 28th August 2020 Toulouse, France