**3GPP TSG-RAN WG3 #108-e R3-204175**

**1 – 12 June 2020**

Title: [DRAFT] Reply LS on assistance indication for WUS

Response to: Reply LS on assistance indication for WUS (S2-2003217)

Release: Release 15

Work Item: NB\_IOTenh3-Core, LTE\_eMTC5-Core

Source: Qualcomm Incorporated [to be RAN3]

To: SA2, RAN2

Cc: CT1

**Contact Person:**

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

Attachments: None

**1. Overall Description:**

RAN3 would like to thank SA2 for the reply LS on assistance indication for WUS, and notes that SA2 has kindly revised the solution following RAN3’s concerns.

SA2 also requests to confirm whether the eNB will be able to determine, while a UE is in connected mode, whether the UE supports WUS.

RAN3’s understanding is that the eNB cannot always determine whether a UE supports WUS in connected mode, e.g. eNB cannot obtain the UE’s WUS capability in the case of inter-NodeB handover/context retrieval. Therefore, for the purpose of reducing WUS, RAN3 thinks that WUS-capable eNBs shall provide the *Recommended Cells for Paging IE* in the *Information On Recommended Cells And eNBs For Paging* IE (see TS 36.413) to the MME in the S1 UE Context Release Complete or UE Context Suspend Request messages for all UEs, instead of only for WUS capable UEs..

RAN3 also discussed the requirements on the paging eNB and noted that this would have to be configured differently depending on the network deployment. For example, in case MME does not relay the Recommended Cells for Paging IE, the eNB shall use WUS to page the WUS capable UE in the paging area; while for a supporting MME, the eNB is assumed to use WUS to page WUS capable UEs only in the last used cell as indicated by the *Recommended Cells for Paging* IE, provided this is reliably signalled by the releasing eNB and the MME. RAN3 considers that both options can be addressed via proper implementation.

RAN3 also agreed that eNB WUS capability is not sent to MME by S1AP signalling, and this can be obtained via OAM configuration, if needed.

**2. Actions:**

**To RAN WG2, SA WG2.**

**ACTION:** RAN3 kindly asks RAN2 and SA2 to take the above information into account.

**3. Date of Next RAN3 Meetings:**

RAN3#109-e TBD (August 2020) Electronic meeting