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

Online, 24 February – 6 March 2020

**Agenda item: 4.1**

**Source: Huawei (offline email discussion rapporteur)**

**Title: Report of [AT109e][303][NBIOT R15] System support for Wake Up Signal (Huawei)**

**Document for: Report**

# 1 Scope of the offline email discussion

This document contains the summary of the offline email discussion “[AT109e][303][NBIOT R15] System support for Wake Up Signal (Huawei)”, as indicated below:

* [AT109e][303][NBIOT R15] System support for Wake Up Signal (Huawei)

Scope: Discuss and review the CRs

Intended outcome: Agreeable CRs, or decision to e.g. postpone/not agree.

Deadline: 06-03-2020, 12:00 CET

Timeline:

* + - Companies input: Wednesday, Mar 04th 12:00 CET
    - Rapporteur summary and updated CRs (if needed): Wednesday, Mar 04th 17:00 CET
    - Wording comment, if any, on updated CRs: Thursday, Mar 05th 12:00 CET
    - Final check, including shadow CR, e-mail discussion stops, Mar 06th 12:00 CET

# 2 Offline email discussion

[R2-2000809](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109_e\Docs\R2-2000809.zip) System support for Wake Up Signal Huawei, HiSilicon CR Rel-15 36.300 F

Companies are requested to provide comments in the table below (one row for each new comment to better keep track of the discussion – please don’t edit the previous comments).

|  |  |  |
| --- | --- | --- |
| **Company** | **Do you agree with the intent of the CR?** | **Detailed comments** |
| Qualcom | **Yes** | Think this CR should be checked by RAN3 before agreeing as it has impact on RAN3 specifications too. |
| Apple | **Yes** |  |

Conclusion: TBC

Proposal: TBC

[R2-2000638](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109_e\Docs\R2-2000638.zip) System support for Wake Up Signal Huawei, HiSilicon CR Rel-15 36.304 F

Companies are requested to provide comments in the table below (one row for each new comment to better keep track of the discussion – please don’t edit the previous comments).

|  |  |  |
| --- | --- | --- |
| **Company** | **Do you agree with the intent of the CR?** | **Detailed comments** |
| Qualcomm | **Yes** | We think the wording in the CR should be changed to  The SA2 mechanism requires network to use WUS only in the cell where core network had S1 connection for the UE. This implies this is the last cell where UE was in NAS CONNECTED mode. Therefore we propose the following changes.  Cover sheet changes:  “Specify that the UE monitors WUS ~~camping~~ only when **camping** in the cell it was last connected to **core network**.  CR changes:  “When the UE supports WUS and is camping on the cell where it last left EMM-CONNECTED mode (see TS 24.301 [16]) (NOTE) and WUS configuration is provided in system information, the UE shall monitor WUS using the WUS parameters provided in System Information. When DRX is used and the UE detects WUS the UE shall monitor the following PO. When extended DRX is used and the UE detects WUS the UE shall monitor the following *numPOs* POs or until a paging message including the UE's NAS identity is received, whichever is earlier. If the UE does not detect WUS the UE is not required to monitor the following PO(s). If the UE missed a WUS occasion (e.g. due to cell reselection), it monitors every PO until the start of next WUS or until the PTW ends, whichever is earlier.  NOTE: UE may have beenin EMM-CONNECTED mode because of RRC connection establishment, RRC connenction resumption or EDT  ” |
| Apple | **Yes** | Should the Cover sheet change be rephrased as  “Specify that the UE monitors WUS ~~camping~~ only when **camping back** in the cell **where** it was last connected to **a** **core network**. |

Conclusion: TBC

Proposal: TBC

# 3 Conclusions

**Conclusions:**

TBC

**Agreed CRs:**

TBC –agreed Rel-15 CRs and shadow Rel-16 CR (with Tdoc numbers).

# 4 List of referenced documents

[1] [R2-2000638](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109_e\Docs\R2-2000638.zip) System support for Wake Up Signal Huawei, HiSilicon CR Rel-15 36.304 15.5.0 0779 - F NB\_IOTenh2-Core, LTE\_eMTC4-Core

[2] [R2-2000809](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109_e\Docs\R2-2000809.zip) System support for Wake Up Signal Huawei, HiSilicon CR Rel-15 36.300 15.8.0 1264 - F NB\_IOTenh2-Core, LTE\_eMTC4-Core

[3] [R2-2000810](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109_e\Docs\R2-2000810.zip) System support for Wake Up Signal Huawei, HiSilicon CR Rel-16 36.300 16.0.0 1265 - A NB\_IOTenh2-Core, LTE\_eMTC4-Core