3GPP TSG-RAN WG2 Meeting #109e R2-20xxxxx

Online, 24 February – 6 March 2020

**Agenda item: 4.1**

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

**Title: Report of [AT109e][302][NBIOT R13] Handling of UE Radio Capability for Paging in NB-IoT and eMTC (Huawei)**

**Document for: Report**

# 1 Scope of the offline email discussion

This document contains the summary of the offline email discussion [AT109e][302][NBIOT R13] Handling of UE Radio Capability for Paging in NB-IoT and eMTC (Huawei)**”**, as indicated below:

* [AT109e][302][NBIOT R13] Handling of UE Radio Capability for Paging in NB-IoT and eMTC (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 CR: Thursday, Mar 05th 12:00 CET
		- Final check, including shadow CR, e-mail discussion stops, Mar 06th 12:00 CET

# 2 Offline email discussion

[R2-2000632](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109_e%5CDocs%5CR2-2000632.zip) Handling of UE Radio Capability for Paging in NB-IoT and eMTC CR Rel-13 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** |
| Qualcomm | **Maybe** | The SA2 specification (23.401, R15 section 5.11.4) already has text covering exchange of UE Radio Paging Capability for Paging between eNB and MME but this is optional. Therefore, it is not clear what additional clarification is achieved by adding similar text to RAN2 stage 2 specification. Note, SA2 specification already says: “*Depending upon the features implemented in the E-UTRAN, this procedure may assist the E-UTRAN in optimising the radio paging procedures, or this procedure can be essential for mobile terminating services to succeed.*” If necessary, then I propose the following wording to make it mandatory for AS & CN to transport this information.“For BL UEs, UEs supporting Enhanced Coverage and NB-IoT UEs, the eNB shall upload the UE Radio Capability for Paging to the MME and the MME shall include the UE Radio Capability for Paging in the paging request to the eNB, TS 23.401 [17].” |
| Nokia | **Yes** |  |

Conclusion: TBC

Proposal: TBC

[R2-2000633](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109_e%5CDocs%5CR2-2000633.zip) Handling of UE Radio Capability for Paging in NB-IoT and eMTC CR Rel-14 36.300 F

Please note that this is not a pure shadow, as there are additional changes in section 10.1.4 related to multi-carrier paging.

Companies are requested to provide comments on the change in section 10.1.4 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** |
| Nokia | **No** | The ENB always needs to page to UE on non-anchor carrier based on UE capability information received from MME. Additional note on which field of S1 message to be referred is not required.  |
| Qualcomm | **No** | Agree with Nokia, as longs as there is generic text to mandate exchange of *UE Radio Capability for Paging* then there is no need to explicitly state this for individual feature. |

Conclusion: TBC

Proposal: TBC

# 3 Conclusions

**Conclusions:**

TBC

**Agreed CRs:**

TBC – agreed Rel-13 CR, Rel-14 CR and Rel-15/16 shadow CRs (with Tdoc numbers).

# 4 List of referenced documents

[1] [R2-2000632](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109_e%5CDocs%5CR2-2000632.zip) Handling of UE Radio Capability for Paging in NB-IoT and eMTC Huawei, HiSilicon CR Rel-13 36.300 13.13.0 1260 - F NB\_IOT-Core, LTE\_MTCe2\_L1-Core

[2] [R2-2000633](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109_e%5CDocs%5CR2-2000633.zip) Handling of UE Radio Capability for Paging in NB-IoT and eMTC Huawei, HiSilicon CRel-14 36.300 14.11.0 1261 - F NB\_IOT-Core, LTE\_MTCe2\_L1-Core, NB\_IOTenh-Core

[3] [R2-2000634](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109_e%5CDocs%5CR2-2000634.zip) Handling of UE Radio Capability for Paging in NB-IoT and eMTC Huawei, HiSilicon CR Rel-15 36.300 15.8.0 1262 - A NB\_IOT-Core, LTE\_MTCe2\_L1-Core, NB\_IOTenh-Core

[4] [R2-2000635](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109_e%5CDocs%5CR2-2000635.zip) Handling of UE Radio Capability for Paging in NB-IoT and eMTC Huawei, HiSilicon CR Rel-16 36.300 16.0.0 1263 - A NB\_IOT-Core, LTE\_MTCe2\_L1-Core, NB\_IOTenh-Core