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

Online, 24 February – 6 March 2020

**Agenda item: 7.2.10**

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

**Title: Report of [AT109e][310][** **NBIOT] 5GC open issues in AI 7.2.10 (Huawei)**

**Document for: Report**

# 1 Scope of the offline email discussion

This document contains the summary of the offline email discussion “[AT109e][310][NBIOT] 5GC open issues in AI 7.2.10 ”, as indicated below:

* [AT109e][310][NBIOT] 5GC open issues in AI 7.2.10 (Huawei)

Scope: Progress the open issues and proposals listed in R2-2002015, not already agreed.

Intended outcome: Report.

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

The proposals from R2-2002015 [1] below were agreed in the first session of RAN2-109e:

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| --- |
| Agreements   * Similar as UP CIoT EPS Optimization, rrc-SuspendIndication in RRCConnectionReject can be supported for UP CIoT 5GS Optimization. No change for specification is needed. * DL channel quality report can be supported for both NB-IoT and eMTC connected to 5GC. * Confirm the working assumption that cause delayTolerantAccess it not applicable to 5GC. * Confirm the working assumption that there is no need for an indication of extended Idle mode DRX support in system information for NB-IoT. * Confirm the working assumption that there is a new IE up-EDT-5GC-r16 in SIB2-BR/SIB2-NB to indicate ng-eNB connected to 5GC supports CP MO-EDT. * Revert the working assumption that the values ‘n’ and ‘m’ for the truncation of the 5G-S-TMSI are signalled per PLMN in SystemInformationBlockType2-NB. * Remove the IE cp-ReestablishmentPLMNList-5GC-r16 in SystemInformationBlockType2-NB. * The existing capability multipleDRB-r13 is also applicable to 5GC * PUR is supported in EPC and 5GC. * Introduce separate indications up-PUR-5GC-r16 and cp-PUR-5GC-r16 in SIB2-BR/SIB2-NB * Introduce separate UE capabilities pur-UP-5GC-r16 and pur-CP-5GC-r16. * Add ab-PerRSRP-r16 parameter (same definition as SIB14-BR) in SIB25-BR. * BL UEs or UEs in CE in RRC\_CONNECTED mode performs access barring check based on the latest UAC parameters acquired prior to entering RRC\_CONNECTED. |

In [1], it was indicated that proposals 1, 2, 3 and 4 in [3] are comments on the NB-IoT and eMTC running CRs and should be discussed in the e-mail discussion in the running CRs. They are not discussed here.

In [1], it was indicated that proposal 8 in [3] and proposals 1, 2 and 3 in [7] should be discussed with ping-pong between CN types in 5GC. They are not discussed here.

In [1], it was indicated that proposals 1 and 2 in [8] should be postponed. They are not discussed here.

The document discusses the other remaining proposals and open issues in [1].

# 2 Discussion

## 2.1 RRC connection re-establishment for CP in NB-IoT

In [2], it is proposed that for 5GC, CP re-establishment is always enabled and there is no need for an indication in system information. This is based on absence of legacy eNB.

**Offline Discussion Point 1: Please provide comment on whether you agree or disagree with the above proposal.**

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| --- | --- | --- |
| **Company** | **do you agree with the proposal** | **Comments** |
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Conclusion: TBC

Proposal: TBC

## 2.2 Access barring for eMTC

System information update mechanism for SIB25-BR in 5GC

In [5], it is proposed that systemInformationBlockType25-BR follows the same system information update mechanism as SIB14-BR and does not affect the value tag.

**Offline Discussion Point 2: Please provide comment on whether you agree or disagree with the above proposal.**

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| --- | --- | --- |
| **Company** | **Do you agree with the proposal** | **Comments** |
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Conclusion: TBC

Proposal: TBC

System information update notification for SIB25-BR in 5GC

In [4], it is proposed that a new parameter uac-ParamModification (similar to eab-ParamModification) is introduced in the Paging message and a new parameter systemInfoModification-UAC (similar to systemInfoModification-eDRX) in introduced in the Direct Indication Information to indicate SIB25-BR modification and scheduling.

In [5], it is proposed that a new parameter uac-ParamModification (similar to eab-ParamModification) is introduced in the Paging message and in the Direct Indication Information to indicate SIB25-BR modification and scheduling.

**Offline Discussion Point 3: Do you agree with introducing a notification in Paging message and Direct Indication Information. If yes, please provide comment on the meaning on the indication:**

* option a): same indication (e.g. uac-ParamModification) in paging message and Direct Indication information with similar handling to eab-ParamModification in EPC
* option b): one indication (e.g. uac-ParamModification) in paging message with similar handling to eab-ParamModification in EPC and one indication in Direct Indication information (e.g. systemInfoModification-UAC) with similar handling to systemInfoModification-eDRX in EPC
* option c). Other, please describe

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| --- | --- | --- |
| **Company** | **Do you agree with introducing notification ?**  **option a, b or c ?** | **Comments** |
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Conclusion: TBC

Proposal: TBC

# 3 Summary

**Conclusions:**

TBC

# 4 List of referenced documents

[1] [R2-2002015](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109_e\Docs\R2-2002015.zip) Summary of contributions for connection to 5GC (AI 7.2.10) Huawei discussion Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core

[2] [R2-2000647](http://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109_e/Docs/R2-2000647.zip) Miscellaneous for NB-IoT and eMTC RRC CRs Huawei, HiSilicon discussion Rel-16 NB\_IOTenh3-Core, LTE\_eMTC5-Core

[3] [R2-2000517](http://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109_e/Docs/R2-2000517.zip)Remaining FFSs for connection to 5GC ZTE Corporation, Sanechips discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core

[4] [R2-2000539](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109_e/Inbox/R2-2000539.zip) UAC information change indication for eMTC UE connected to 5GC Qualcomm Incorporated

[5] [R2-2000648](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109_e/Inbox/R2-2000648.zip) Access barring for eMTC connected to 5GC Huawei, HiSilicon

[6] [R2-2000540](http://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109_e/Docs/R2-2000540.zip) Email discussion report [108#97] for how to minimize ping-pong between CN types in RRC\_IDLE/RRC\_INACTIVE Qualcomm India Pvt Ltd discussion Rel-16 LTE\_eMTC5-Core, NB\_IOTenh3-Core

[7] [R2-2001014](http://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109_e/Docs/R2-2001014.zip) UE redirection to a specific CN type and ping-pong behavior Sony Europe B.V. discussion NB\_IOTenh3-Core

[8] [R2-2001478](http://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_109_e/Docs/R2-2001478.zip) AS RAI and optimization of release in EDT Ericsson discussion LTE\_eMTC5-Core, NB\_IOTenh3-Core Late