3GPP TSG-RAN WG2 Meeting #110-e draft\_R2-2005822

Online, 1st - 12th June 2020

**Agenda item: 4.2.1**

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

**Title: Report of [AT110-e][402][eMTC] R15 Clarification for CP EDT (Huawei)**

**Document for: Report**

# 1 Scope of the offline email discussion

This document contains the summary of the offline email discussion “[AT110-e][402][eMTC] R15 Clarification for CP EDT (Huawei)”, as indicated below:

* [AT110-e][402][eMTC] R15 Clarification for CP EDT (Huawei)

Scope: Check if there is support and update based on the comments if the CRs are agreeable

Intended outcome: Report provided in R2-2005822 and, if agreeable, updated CR(s).

 Deadline: Friday, June 5th 10:00 UTC

# 2 Offline email discussion

[R2-2005010](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005010.zip) Clarification for CP EDT Huawei, HiSilicon CR Rel-15 36.304 15.5.0 0793 - F NB\_IOTenh2-Core, LTE\_eMTC4-Core

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** | Change to section 5.2.4.1 is ok.Change to section 5.2.7 is somewhat confusing because UE is supposed to be in RRC\_IDLE at start, during and end of EDT, therefore it is not correct to say *RRCEarlyDataComplete* message causes the UE to return to idle when UE never left idle state. Furthermore, *RRCEarlyDataComplete* cannot move UE to RRC\_INACTIVE. Second paragraph, first change should change as follows:At reception of *RRCConnectionRelease* message to move the UE into RRC\_IDLE or RRC\_INACTIVE, or at reception of *RRCEarlyDataComplete*, or at reception of *RRCConnectionRelease* during EDT (TS 36.300 [2]), UE shall attempt to camp on a suitable cell according to *redirectedCarrierInfo*, if included in the *RRCConnectionRelease* message or *RRCEarlyDataComplete* message. Second paragraph, second change is ok.Third paragraph change is not needed because EDT cannot be used in state 'camped on any cell' and this change will confuse the reader that EDT is supported when ‘camped on any cell’.Change to section 5.2.7a are not right for similar reason above.First change should be as follows:On transition from RRC\_CONNECTED to RRC\_IDLE or on completion of EDT (TS 36.300 [2]), UE shall attempt to camp on a suitable cell according to *redirectedCarrierInfo*, if included in the *RRCConnectionRelease-NB* message or *RRCEarlyDataComplete-NB* message. Second change is fine. |
| Huawei | **yes** | In response to Qualcomm’s comment, we think we should avoid introducing EDT and PUR in 36.304. Note that also in 36.331 for EDT the UE perfoms the action ‘Upon leaving RRC\_CONNECTED or RRC\_INACTIVE’. Also in eLTE, the UE does not move to RRC\_CONNECTED when performing RNA Update. We are open to small wording change but we prefer not to mention EDT or PUR.In our view, the text is 5.2.7 is general enough, (UE moves from IDLE to IDLE and it is clear in RRC that *RRCEarlyDataComplete* does not move the UE to RRC\_INACTIVE). In section 5.2.7a, to avoid explicit mention of transition from RRC\_CONNECTED, we could align the text with 5.2.7.Agree that EDT cannot be initiated in ‘limited’ state thus the 2nd change in 5.2.7 should be removed.  |
| ZTE | **Yes** | Generally we agree with the intention of the CR. We also agree with QC’s comment that UE is supposed to be kept in RRC\_IDLE for EDT. So we are ok with all the Qualcomm’s suggestions. While with consideration on HW’s comment of avoiding EDT and PUR in 36.304, we give the following change examples for 5.2.7 and 5.2.7a for further comparison.5.2.7 Cell Selection at transition to RRC\_IDLE or RRC\_INACTIVE stateFor NB-IoT cell Selection at transition to RRC\_IDLE state is defined in clause 5.2.7a.At reception of *RRCConnectionRelease* or *RRCEarlyDataComplete* message, UE shall attempt to camp on a suitable cell according to *redirectedCarrierInfo*, if included in the *RRCConnectionRelease* or *RRCEarlyDataComplete* message. If the UE cannot find a suitable cell, the UE is allowed to camp on any suitable cell of the indicated RAT. If the *RRCConnectionRelease* or *RRCEarlyDataComplete* message does not contain the *redirectedCarrierInfo* UE shall attempt to select a suitable cell on an EUTRA carrier. If no suitable cell is found according to the above, the UE shall perform a cell selection starting with Stored Information Cell Selection procedure in order to find a suitable cell to camp on.……5.2.7a Cell Selection at transition to RRC\_IDLE state for NB-IoTAt reception of *RRCConnectionRelease-NB* or *RRCEarlyDataComplete-NB* message, UE shall attempt to camp on a suitable cell according to *redirectedCarrierInfo*, if included in the *RRCConnectionRelease-NB* or *RRCEarlyDataComplete-NB* message. If the UE cannot find a suitable cell, the UE is allowed to camp on a suitable cell of any NB-IoT carrier. If the *RRCConnectionRelease-NB* or *RRCEarlyDataComplete-NB* message does not contain the *redirectedCarrierInfo* UE shall attempt to select a suitable cell on a NB-IoT carrier. |

Conclusion:

Proposal:

# 3 Conclusion

**Conclusion:**

TBC

**Agreed CR:**

TBC – agreed Rel-15 and Rel-16 shadow CR.

# 4 List of referenced documents

[1] [R2-2005010](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005010.zip) Clarification for CP EDT Huawei, HiSilicon CR Rel-15 36.304 15.5.0 0793 - F NB\_IOTenh2-Core, LTE\_eMTC4-Core

[2] [R2-2005011](http://ftp.3gpp.org/tsg_ran/WG2_RL2/TSGR2_110-e/Docs/R2-2005011.zip) Clarification for CP EDT Huawei, HiSilicon CR Rel-16 36.304 16.0.0 0794 - A NB\_IOTenh2-Core, LTE\_eMTC4-Core