3GPP TSG-RAN WG2 Meeting #115-e draft\_R2-2108906

Online, 16th - 27th August 2021

**Agenda item: 7.2.2**

**Source: Huawei**

**Title: [AT115-e][401][eMTC R16] Indication of RRC\_INACTIVE support in SIB1 (Huawei)**

**Document for: Report**

# 1 Scope of the offline discussion

This is the offline email discussion “[AT115-e][401][eMTC R16] Indication of RRC\_INACTIVE support in SIB1 (Huawei)”, as indicated below:

[R2-2107454](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_115-e/Docs/R2-2107454.zip) Introduction of an indication of RRC\_INACTIVE support in SIB1 Huawei, HiSilicon CR Rel-16 36.331 16.5.0 4694 - F LTE\_eMTC5-Core

* [AT115-e][401][eMTC R16] Indication of RRC\_INACTIVE support in SIB1 (Huawei)

Status: Started

**Scope:** Check whether the intention is agreeable and there is sufficient support  
in principle; collect initial comments.

**Intended outcome:** Report in R2-2108906

**Deadline:** Wednesday 2021-08-18 12:00 UTC

# 2 Offline discussion

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 change?** | **Detailed comments** |
| Qualcomm | No | We don’t think this change is necessary.  If a cell is included in RNA list for any UE, that cell shall support RRC\_INACTIVE. A cell not supporting RRC\_INACTIVE cannot be part of any RNA.  We understand the scenario under discussion is where the UE ends up outside the configured RNA. For eMTC, if the cell does not support RRC\_INACTIVE then eNB can always send such a UE to RRC\_IDLE without suspend by rejecting/releaseing UE and the end result is will be the same. Note that BL UE and UE in CE would only initiate the RAN notification procedure if cell supports 5GC hence network should be able to gracefully handle RRC connection resume message with cause from R15.  Additionally, if the network does not comprehend the message and/or cause and not respond, after t300 expiry the UE would transition to IDLE.  In any case, we think this situation also exists in eLTE from Release 15. We consider this is an optimisation and not an essential correction.. |
| NEC | No | agree with Qualcomm. Even without this indicatin, no critical problem is seen. we prefer not to have flag/indication showing network capability unless it’s essential. |
| ZTE | No | We understand a cell connected to 5GC also supports RRC\_INACTIVE. So we think the *cellAccessRelatedInfoList-5GC* can be used to implicitly indicate whether the cell supports RRC\_INACTIVE.  In other word, if the upper layers indicate the selected core network type as 5GC and UE receives *cellAccessRelatedInfoList-5GC* in a cell and a PLMN is matched, UE can assume this cell supports RRC\_INACTIVE. Furthermore, if the cell is not in the configured *ran-NotificationAreaInfo*, it’s suitable for UE to initiate the RAN notification area update procedure, e.g., UE don’t need to enter RRC\_IDLE.  But now, we are thinking about whether there is another case, e.g., the UE’s upper layers indicate the selected core network type as 5GC and UE cannot receive *cellAccessRelatedInfoList-5GC* in a cell (that means this cell is connected to EPC). We assume UE may select a new PLMN and then UE transitions from RRC\_INACTIVE to RRC\_IDLE. Based on such thinking, we are wondering whether a “else” branch is needed as following (see the highlighted change mark):  5.2.2.7 ….  *Upon receiving the SystemInformationBlockType1 or SystemInformationBlockType1-BR either via broadcast or via dedicated signalling, the UE shall:*  *1> if the upper layers indicate the selected core network type as 5GC:*  *2> if the cellAccessRelatedInfoList-5GC contains an entry with the plmn-Identity or plmn-Index of the selected PLMN:*  *3> in the remainder of the procedures use plmn-IdentityList, trackingAreaCode, and cellIdentity for the cell as received in the corresponding cellAccessRelatedInfoList-5GC containing the selected PLMN;*  *2> else????*  *1> else if the cellAccessRelatedInfoList contains an entry with the PLMN-Identity of the selected PLMN:*  …………. |
| Ericsson | No | Similar reasoning as given in the previous replies.  We don’t think there is anything we need to do for the conditions on SIB1-BR reception quoted by ZTE. |

Conclusion:

# 3 Conclusion

# 4 Participants

|  |  |  |
| --- | --- | --- |
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