3GPP TSG-RAN WG2 Meeting #110e R2-2006109

eMeeting, 1st – 12th, June, 2020

Agenda Item: 6.19.0

Source: MediaTek Inc.

**Title: Report of [AT110e][025][TEI16 Other] In-principle Agreed CRs (Mediatek)**

Document for: Discussion and decision

# 1 Introduction

This is report for the following e-mail discussion.

* [AT110e][025][TEI16 Other] In-principle Agreed CRs (Mediatek)

Scope: Treat all documents under 6.19.0, and 6.20.1.0 (proponents are responsible to explain and drive)

Expected Outcome: Agree In-principle agreed CRs, Deadline: June 5, 0700 UTC.

# 2 Discussion

## 2.1 single entry PHR with P bit (OPPO)

Discussion on the following IPA CRs:

[R2-2004583](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2004583.zip) UE capability for single entry PHR with P bit OPPO, Ericsson, MediaTek Inc., Nokia, Nokia Shanghai Bell, vivo, ZTE, Xiaomi CR Rel-16 38.331 16.0.0 1589 1 F TEI16 R2-2004214

[R2-2004584](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2004584.zip) UE capability for single entry PHR with P bit OPPO, Ericsson, MediaTek Inc., Nokia, Nokia Shanghai Bell, vivo, ZTE, Xiaomi CR Rel-16 38.306 16.0.0 0296 1 F TEI16 R2-2004215

[R2-2004883](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2004883.zip) P bit for Single Entry PHR Nokia, Nokia Shanghai Bell, Apple, Ericsson, Lenovo, MediaTek Inc., NTT DOCOMO, INC., OPPO CR Rel-16 38.321 16.0.0 0716 1 F TEI16 R2-2003010

Companies are invited to provide comments on the IPA CR(s). Could they be agreed or there is some additional suggestion? Proponent companies please clarify whether there is change compared to the IPA CR(s) in last meeting.

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| **Company** | **Comments** |
| Ericsson | The CRs can be agreed. |
| Nokia | No change for R2-2004883 compared to the IPA CR in last meeting apart from more co-sourcing companies added → the CR can be agreed |
| OPPO | No change. |
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**Summary:** CR is not changed and no further comment. The rapporteur also understands that capability for TEI16 will be merged to the mega CR. Thus R2-2004583 and R2-2004584 should be endorsed instead of agreed.

**Proposal 1: To agree R2-2004883. To endorse R2-2004583 and R2-2004584 and merge them to the RAN2 capability mega CRs.**

## 2.2 BCS to asymmetric channel bandwidths (Huawei)

Discussion on the following IPA CR:

[R2-2005399](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2005399.zip) CR on introduction of BCS to asymmetric channel bandwidths (38.306) Huawei, HiSilicon, Telus CR Rel-16 38.306 16.0.0 0289 2 B NR\_n66\_BW R2-2004210

Companies are invited to provide comments on the IPA CR(s). Could they be agreed or there is some additional suggestion? Proponent companies please clarify whether there is change compared to the IPA CR(s) in last meeting.

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| **Company** | **Comments** |
| Ericsson | The CR can be agreed. |
| Nokia | The CR can be agreed. |
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**Summary:** No further comment on the CR. The rapporteur understands that capability for TEI16 will be merged to the mega CR. Thus R2-2005399 should be endorsed instead of agreed. However, the discussion on corresponding 38.331 CR is not stated yet (offline #031). It would be strange to only have 306 CR without 331 CR. It is thus suggest to endorse the CR but could continue to discuss in offline#031.

**Proposal 2: To endorse R2-2005399 but continues to discuss the CR in offline#031.**

## 2.3 eCall (Huawei)

Discussion on the following LS and IPA CRs:

[R2-2004318](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2004318.zip) Reply LS on support for eCall over NR (S2-2003308; contact: Qualcomm) SA2 LS in Rel-16 EIEI, 5GS\_Ph1 To:SA, RAN2, CT1, CT Cc:SA1, SA4, TSG RAN, SA5, RAN5

Expect to be Noted

[R2-2005388](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2005388.zip) Introduction of eCall over IMS for NR Huawei, HiSilicon CR Rel-16 38.300 16.1.0 0239 - C TEI16

[R2-2005389](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2005389.zip) Introduction of eCall over IMS for NR Huawei, HiSilicon CR Rel-16 38.304 16.0.0 0173 - C TEI16

[R2-2005390](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2005390.zip) Introduction of eCall over IMS for NR Huawei, HiSilicon CR Rel-16 38.331 16.0.0 1670 - C TEI16

[R2-2005391](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2005391.zip) Corrections on Emergency Services Huawei, HiSilicon CR Rel-15 38.300 15.9.0 0240 - F TEI15

Companies are invited to provide comments on the IPA CR(s) and incoming LS. Could the CRs to be agreed or there is some additional suggestion? For the incoming LS, could we just note it? Proponent companies please clarify whether there is change compared to the IPA CR(s) in last meeting.

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| **Company** | **Comments** |
| Huawei, HiSilicon | Just some comments on “For the incoming LS, could we just note it?”.  At RAN2-109b-e meeting, we also provided a draft reply LS (respond to the SA LS [R2-2002549](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2002549.zip)), and the LS was not needed based on RAN2 minutes.  [R2-2003568](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2003568.zip) Draft reply LS on support for eCall over NR Huawei discussion Rel-16 TEI16  [055] noted, not needed  So we think that RAN2 could just note the LS [R2-2004318](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2004318.zip). |
| Ericsson | The CRs can be agreed. |
| Nokia | R2-2005388 should be agreed.  R2-2005389 should not be agreed, as there is no need to clarify a NAS function that has no impact to idle/inactive mobility.  R2-2005390 should be agreed.  R2-2005391 can be agreed. |
| Huawei, HiSilicon | Regarding Nokia’s comments on R2-2005389 (38.304 CR), we have the following responses.  The change in the 38.304 CR is following LTE TS 36.304 definition. The CR for introducing this change in TS 36.304 is listed as below:  RP-162327 0341 - Support of eCall Only Mode for Network and Cell Selection  **Reason for change:** Changes to support PLMN selection for a UE in eCall only Mode were approved by CT1 in CRs 0303 (in C1-163836) and 0305 (in C1-164264) to TS 23.122 in Rel-14. Some small corresponding changes are needed to 36.304 to align with this.    **Summary of change:** Add a definition of eCall only mode. Indicate that the NAS side supports restriction of location registration for a UE in eCall only mode.    **Consequences if not approved:** Lack of complete alignment with TS 23.122 and possible errors in supporting UEs in eCall only mode.  If 38.304 CR is excluded, the issues mentioned in RP-162327 CR0341 may happen. In addition, according to the summary of eCall (i.e. [R2-2004185](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2004185.zip) Summary of [AT109bis-e][055][TEI16] eCall over NR), 38.304 CR was supported by the following companies:   * Qualcomm * OPPO * ZTE * Huawei, HiSilicon * Samsung * Ericsson * Lenovo   So we think R2-2005389 is needed. |
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**Summary:** No question on the LS, could be noted. No further comment on 38.300, 38.331 CRs. They could be agreed. One company think that 38.304 CR is not needed. The rapporteur understand that comment does indicate there is technique problem but more like whether to capture some NAS related description in AS specification. The CR is agreed in principle and the contents seems correction. Therefore, it is still suggested to agree 38.304 CR.

**Proposal 3: To note incoming LS R2-2005399.**

**Proposal 4: To agree the CRs in R2-2005388, R2-2005389, R2-2005390, and R2-2005391.**

## 2.4 Need for Gap (MediaTek)

Discussion on the following IPA CRs:

[R2-2004806](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2004806.zip) Introduction of NeedForGap capability for NR measurement - 36.306 MediaTek Inc. CR Rel-16 36.306 16.0.0 1730 2 B NR\_newRAT-Core, TEI16 R2-2002782

[R2-2004807](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2004807.zip) Introduction of NeedForGap capability for NR measurement - 36.331 MediaTek Inc. CR Rel-16 36.331 16.0.0 4197 4 B NR\_newRAT-Core, TEI16 R2-2002781

[R2-2004808](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2004808.zip) Introduction of NeedForGap capability for NR measurement - 38.300 MediaTek Inc. CR Rel-16 38.300 16.1.0 0191 3 B NR\_newRAT-Core, TEI16 R2-2004160

[R2-2004810](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2004810.zip) Introduction of NeedForGap capability for NR measurement - 38.306 MediaTek Inc. CR Rel-16 38.306 16.0.0 0238 2 B NR\_newRAT-Core, TEI16 R2-2002785

[R2-2004811](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2004811.zip) Introduction of NeedForGap capability for NR measurement - 38.331 MediaTek Inc. CR Rel-16 38.331 16.0.0 1453 4 B NR\_newRAT-Core, TEI16 R2-2004161 Revised

R2-2005693 Introduction of NeedForGap capability for NR measurement - 38.331 MediaTek Inc. CR Rel-16 38.331 16.0.0 1453 5 B NR\_newRAT-Core, TEI16 [R2-2004811](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2004811.zip) Late

Companies are invited to provide comments on the IPA CR(s). Could they be agreed or there is some additional suggestion? Proponent companies please clarify whether there is change compared to the IPA CR(s) in last meeting.

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| **Company** | **Comments** |
| MediaTek | The current submitted CRs are the same as the AIP CRs in last meeting. However, we have noticed that there is an ASN.1 RIL issue E209 that proposes some related change on 38.331. Therefore, I have reserved one more revision for the 38.331 CR. I intend to follow the proposal from E209. In addition, there is one discussion paper (R2-2004393) that is going to be treated in offline#036. The P1 in R2-2004393, if agreed, requires more change on inter-node message part of 38.331.  In summary, there may be 3 additional change in 38.331 CR  <1> As suggested by the E209, rewording the 3 if statement in 5.3.5.3  <2> As suggested by rapporteur in E209, move the *needForGapsConfigNR* from *OtherConfig* to *RRCReconfiguration-v16xy-IEs*. The reason is that the feature that is configured via *OtherConfig* usually does not reporting is in *RRCReconfigurationComplete.* For consistent, it is suggested to move it to the configuration to message level.  <3> Depending on the discussion in offline#036, add new inter-node signaling. |
| Nokia | The CRs can be agreed while the open updates about INM to 38.331 CR can be decided by offline#36.  For 38.331 CR, we want to confirm the understanding of UE behaviour if NW request UE report NeedForGap capability via *RRCReconfiguration* message which includes the *needForGapsConfigNR.* According to procedure below, we think UE should always report the capability if NW request it, even if there is no capability change compared to last reported *NeedForGap* capability.   |  | | --- | | R2-2004811:  2> if the *RRCReconfiguration* message was received via SRB1:  3> if the UE is configured to provide the measurement gap requirement information of NR target bands:  4> if the *RRCReconfiguration* message includes the *needForGapsConfigNR*; or  4> if the the *NeedForGapsInfoNR* information is changed compared to last time the UE reports this information:  5> include the *NeedForGapsInfoNR* and set the contents as follows:  6> include *intraFreq-needForGap* and set the gap requirement informantion of intra-frequency measurement for each NR serving cell;  6> for each supported NR band that is also included in *requestTargetBandFilterNR* (if configured), include an entry in *interFreq-needForGap* and set the gap requirement information for that band; |   [MediaTek] Same understanding. UE should always report the capability if NW request it, even if there is no capability change compared to last reported NeedForGap capability. |
| OPPO | The TEI 16 corrections for Need for Gap will be included in this CR if agreed. Right?  [MediaTek] Yes, if the INM is agreed. I suggest to discuss the updated CR in this mail thread |
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**Summary:** No further comment on 36.331, 36.300 CRs. They could be agreed. For NR parts, there is some comment from RIL E209 and offline#036. Thus it should be updated for review. The rapporteur also understands that capability for TEI16 will be merged to the mega CR, so the capability part of 38.331 CR should be split to another CR. There is no comment on 38.300 and 38.306 CRs but seem fine to wait the result of 38.331 CR and agreed/endorsed together.

**Proposal 5: To agree LTE CR R2-2004806 and R2-2004807.**

**Proposal 6: Continues to discuss the NeedForGap NR CRs. The 38.331 CR should be updated according to RIL E209 and offline#036. Also to separate the capability part of 38.331 CR so that it could be merge into RAN2 capability mega CRs.**

## 2.5 Upper Layer Indication (Huawei)

Discussion on the following IPA CR:

[R2-2005308](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2005308.zip) upperLayerIndication enhancements Huawei, HiSilicon, BT, Samsung CR Rel-16 36.331 16.0.0 4266 2 C NR\_newRAT-Core, TEI16 R2-2004264

Companies are invited to provide comments on the IPA CR(s). Could they be agreed or there is some additional suggestion? Proponent companies please clarify whether there is change compared to the IPA CR(s) in last meeting.

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| **Company** | **Comments** |
| Huawei | The CR has been updated in R2-2006081 according to the result of the LTE ASN.1 review RIL S191. We believe that this was the only pending issue in the CR and now it can be agreed. I put a draft in the folder for review. |
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**Summary:** CR is updated based on the discussion result of RIL S191. The rapporteur understand the CR is stabilized and should be agreed unless there is some late comment.

**Proposal 7: Continues to discuss the updated CR R2-2006081 for upper layer indication.**

# 3 Conclusions

Base on the discussion in section 2, we have the following proposals:

Topic: single entry PHR with P bit:

**Proposal 1: To agree R2-2004883. To endorse R2-2004583 and R2-2004584 and merge them to the RAN2 capability mega CRs.**

Topic: BCS to asymmetric channel bandwidths

**Proposal 2: To endorse R2-2005399 but continues to discuss the CR in offline#031.**

Topic: eCall

**Proposal 3: To note incoming LS R2-2005399.**

**Proposal 4: To agree the CRs in R2-2005388, R2-2005389, R2-2005390, and R2-2005391.**

Topic: NeedForGap

**Proposal 5: To agree LTE CR R2-2004806 and R2-2004807.**

**Proposal 6: Continues to discuss the NeedForGap NR CRs. The 38.331 CR should be updated according to RIL E209 and offline#036. Also to separate the capability part of 38.331 CR so that it could be merge into RAN2 capability mega CRs.**

Topic: Upper Layer Indication

**Proposal 7: Continues to discuss the updated CR R2-2006081 for upper layer indication.**