**3GPP TSG-RAN WG2 Meeting #110-e *R2-200xxxx***

**Online, 1–12 June 2020**

**Agenda item: 5.3.1.1**

**Source: Samsung**

**Title: Report of [AT110e][013][NR15] User Plane Corrections (Samsung)**

**Document for: Discussion and Agreement**

# 1 Introduction

This is to report the result of the following email discussion in RAN2#110-e Meeting [1].

**[AT110e][013][NR15] User Plane Corrections (Samsung)**

 Scope: Treat R2-2004423, R2-2004424, R2-2004940, R2-2004942, R2-2005555, R2-2005557. R2-2005471, and possibly in part 2 R2-2005556, R2-2005558, R2-2005559, R2-2005560, R2-2005561, R2-2005472 (proponents are responsible to explain and drive)

 Part 1: Decision whether to make corrections or not, identify agreeable corrections. Deadline: June 4, 0700 UTC.

 Part 2: Others: For agreeable parts, continuation to agree CRs. Deadline: June 10, 0700 UTC.

# 2 Discussion

## 2.1 Obtaining of PH values

The following contributions were submitted to capture the missing parts (i.e. LTE PH from E-UTRA MAC entity) from the existing text:

[R2-2004423](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2004423.zip) Clarification on obtaining of PH values Samsung CR Rel-15 38.321 15.8.0 0738 - F NR\_newRAT-Core

[R2-2004424](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2004424.zip) Clarification on obtaining of PH values Samsung CR Rel-16 38.321 16.0.0 0739 - A NR\_newRAT-Core

**Question 1: Do you agree with the proposed change?**

|  |  |  |
| --- | --- | --- |
| Company | Agree with CR? | Additional comments/suggestion |
| Samsung | Yes | The CR merely tries to correct the mistake, so it would not result any NBC issue.  |
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**Conclusion:**

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## 2.2 Preamble selection for beam failure recovery

The following contributions were submitted to change the existing behaviour for preamble selection when dedicated preamble is configured for beam failure recovery:

[R2-2004940](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2004940.zip) Clarification on preamble selection for beam failure recovery Google Inc. CR Rel-15 38.321 15.8.0 0749 - F NR\_newRAT-Core

[R2-2004942](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2004942.zip) Clarification on preamble selection for beam failure recovery Google Inc. CR Rel-16 38.321 16.0.0 0750 - A NR\_newRAT-Core

**Question 2: Do you agree with the proposed change?**

|  |  |  |
| --- | --- | --- |
| Company | Agree with CR? | Additional comments/suggestion |
| Samsung | No | RAN2 already discussed the issue long time back, and concluded to perform CBRA if no beams meet the condition, as in the current specification. |
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**Conclusion:**

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## 2.3 BWP inactivity timer operation

The following contributions were submitted to clarify whether *bwp-InactivityTimer* is started (or not) if the MAC entity receives PDCCH which results BWP switching (to default BWP):

[R2-2005555](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005555.zip) Discussion on clarification of BWP inactivity timer operation ASUSTeK discussion Rel-15 NR\_newRAT-Core

[R2-2005556](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005556.zip) Clarification of BWP inactivity timer operation ASUSTeK CR Rel-15 38.321 15.8.0 0753 - F NR\_newRAT-Core

**Question 3: Do you agree with the proposed change?**

|  |  |  |
| --- | --- | --- |
| Company | Agree with CR? | Additional comments/suggestion |
| Samsung | No | From the discussion paper, interpretation b is correct (i.e. not to (re-)start *bwp-InactivityTimer* if the MAC entity receives PDCCH, which results BWP switching to default/initial BWP. However this behaviour is obvious from the existing text, and thus no changes are needed. |
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**Conclusion:**

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## 2.4 Presence of IEs in BeamFailureRecoveryConfig

The following contributions were submitted to clarify whether network should always configure *rsrp-ThresholdSSB* and *rach-ConfigBFR* (which contains *powerRampingStep*, *preambleReceivedTargetPower*, *preambleTransMax*, and *ra-ResponseWindow*) in *BeamFailureRecoveryConfig* for CFRA BFR:

[R2-2005557](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005557.zip) Discussion on presence of IEs in BeamFailureRecoveryConfig ASUSTeK discussion Rel-15 NR\_newRAT-Core

[R2-2005558](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005558.zip) Clarification on presence of IEs in BeamFailureRecoveryConfig ASUSTeK CR Rel-15 38.331 15.9.0 1679 - F NR\_newRAT-Core

[R2-2005559](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005559.zip) Clarification on presence of IEs in BeamFailureRecoveryConfig ASUSTeK CR Rel-16 38.331 16.0.0 1680 - A NR\_newRAT-Core

**Question 4: Do you agree with the proposed change?**

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| --- | --- | --- |
| Company | Agree with CR? | Additional comments/suggestion |
| Samsung | No | The proposed changes are correct: both *rsrp-ThresholdSSB* and *rach-ConfigBFR* should be present for CFRA BFR. However, it is already clear from the field descriptions of RRC and the procedures in MAC (e.g. MAC simply says '*ra-ResponseWindow* configured in *BeamFailureRecoveryConfig*' for CFRA BFR without condition). |
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**Conclusion:**

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## 2.5 Handling on absence of IEs in BeamFailureRecoveryConfig

The following contributions were submitted to clarify which values would be used if *rach-ConfigBFR* (which contains *powerRampingStep*, *preambleReceivedTargetPower*, *preambleTransMax*, and *ra-ResponseWindow*) and/or *rsrp-ThresholdSSB* is not configured in *BeamFailureRecoveryConfig* (i.e. to use the values in *RACH-ConfigCommon*):

[R2-2005560](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005560.zip) Handling on absence of IEs in BeamFailureRecoveryConfig ASUSTeK CR Rel-15 38.321 15.8.0 0754 - F NR\_newRAT-Core

[R2-2005561](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005561.zip) Handling on absence of IEs in BeamFailureRecoveryConfig ASUSTeK CR Rel-16 38.321 16.0.0 0755 - A NR\_newRAT-Core

**Question 5: Do you agree with the proposed change?**

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| Company | Agree with CR? | Additional comments/suggestion |
| Samsung | No | The proposed changes are correct, but the values in *RACH-ConfigCommon* are the only available values if *beamFailureRecoveryConfig* is not configured, so no ambiguity exists. |
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**Conclusion:**

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# 3 Conclusion

[R2-2004423](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2004423.zip) Clarification on obtaining of PH values Samsung CR Rel-15 38.321 15.8.0 0738 - F NR\_newRAT-Core

[R2-2004424](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2004424.zip) Clarification on obtaining of PH values Samsung CR Rel-16 38.321 16.0.0 0739 - A NR\_newRAT-Core

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[R2-2004940](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2004940.zip) Clarification on preamble selection for beam failure recovery Google Inc. CR Rel-15 38.321 15.8.0 0749 - F NR\_newRAT-Core

[R2-2004942](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2004942.zip) Clarification on preamble selection for beam failure recovery Google Inc. CR Rel-16 38.321 16.0.0 0750 - A NR\_newRAT-Core

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[R2-2005557](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005557.zip) Discussion on presence of IEs in BeamFailureRecoveryConfig ASUSTeK discussion Rel-15 NR\_newRAT-Core

[R2-2005558](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005558.zip) Clarification on presence of IEs in BeamFailureRecoveryConfig ASUSTeK CR Rel-15 38.331 15.9.0 1679 - F NR\_newRAT-Core

[R2-2005559](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005559.zip) Clarification on presence of IEs in BeamFailureRecoveryConfig ASUSTeK CR Rel-16 38.331 16.0.0 1680 - A NR\_newRAT-Core

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[R2-2005560](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005560.zip) Handling on absence of IEs in BeamFailureRecoveryConfig ASUSTeK CR Rel-15 38.321 15.8.0 0754 - F NR\_newRAT-Core

[R2-2005561](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_110-e%5CDocs%5CR2-2005561.zip) Handling on absence of IEs in BeamFailureRecoveryConfig ASUSTeK CR Rel-16 38.321 16.0.0 0755 - A NR\_newRAT-Core

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# 4 References

[1] R2-110e Chair Notes 20-06-01 1200 UTC.docx