3GPP TSG-RAN WG2 Meeting #119 Electronic R2-220xxxx

Elbonia, 17 – 26 August 2022

**Agenda item: 5.1.2**

**Source: Nokia (Rapporteur)**

**Title:** **[****309][R15/16 UP] CRs on UP (Nokia)**

**Document for: Discussion and Decision**

# 1 Introduction

This document is the report of the following email discussion:

* [AT119-e][309][R15/16 UP] CRs on UP (Nokia)

UP open issues and agreeable CRs capturing agreed corrections

Deadline: Monday Aug 22nd, 1000, UTC

[R2-2207896](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207896.zip) Clarification on BFD while SCell is deactivated Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.9.0 1347 - F NR\_eMIMO-Core

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[R2-2207898](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207898.zip) Clarification on the matching TB size for 2-step RA Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.9.0 1349 - F NR\_2step\_RACH-Core

[R2-2207899](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207899.zip) Clarification on the matching TB size for 2-step RA Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.1.0 1350 - A NR\_2step\_RACH-Core

[R2-2208024](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208024.zip) Clarification on configuredGrantTimer and cg-RetransmissionTimer Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.9.0 1362 - F TEI16, NR\_unlic-Core

[R2-2208025](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208025.zip) Clarification on configuredGrantTimer and cg-RetransmissionTimer Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.1.0 1363 - A TEI16, NR\_unlic-Core, NR\_SmallData\_INACTIVE-Core

[R2-2208254](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208254.zip) Correction on RA Resource Selection in Rel-15 vivo CR Rel-15 38.321 15.13.0 1373 - F NR\_newRAT-Core

[R2-2208261](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208261.zip) Correction on RA Resource Selection in Rel-16 vivo CR Rel-16 38.321 16.9.0 1375 - F NR\_newRAT-Core, NR\_2step\_RACH-Core

[R2-2208263](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208263.zip) Correction on RA Resource Selection in Rel-17 vivo CR Rel-17 38.321 17.1.0 1376 - A NR\_newRAT-Core, NR\_2step\_RACH-Core

# 2 Contact Points

Respondents to the email discussion are kindly asked to fill in the following table.

|  |  |  |
| --- | --- | --- |
| Company | Name | Email Address |
| Nokia (Rapporteur) | SunYoung LEE | sunyoung.lee@nokia.com |
| Samsung | Sangkyu Baek | sangkyu.baek@samsung.com |
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# 3 Discussion

## 3.1 BFD while SCell is deactivated

[R2-2207896](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207896.zip) Clarification on BFD while SCell is deactivated Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.9.0 1347 - F NR\_eMIMO-Core

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It is proposed to clarify that BFD is performed only while the SCell is activated so that UE does not unnecessarily perform BFD/BFR and send BFR MAC CE while the SCell is deactivated.

**Question 1**: Do companies agree with the issue? If yes, are the proposed changes fine?

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| Answers to Question 1 |
| Company | Agree with the issue? (Yes/No) | If yes, are the proposed changes fine or are there any suggestion for improvement? If no, why? |
| Samsung | No | The source of confusion is that PHY may send beam failure instance indication. This is what RAN1 spec should capture. MAC spec only captures only beam failure recovery for which the current MAC spec is clear.  |
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**Summary 1**: TBD.

**Proposal 1**: TBD.

## 3.2 Matching TB size for 2-step RA

[R2-2207898](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207898.zip) Clarification on the matching TB size for 2-step RA Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.9.0 1349 - F NR\_2step\_RACH-Core

[R2-2207899](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207899.zip) Clarification on the matching TB size for 2-step RA Nokia, Nokia Shanghai Bell CR Rel-17 38.321 17.1.0 1350 - A NR\_2step\_RACH-Core

It is proposed to replace 'corresponds to' by 'matches with' because the intention is to check whether the TB size of two TBs are of the same or not.

**Question 2**: Do companies agree with the issue? If yes, are the proposed changes fine?

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| Answers to Question 2 |
| Company | Yes/No | If yes, are the proposed changes fine or are there any suggestion for improvement? If no, why? |
| Samsung | Yes/No | Not essential, but ok to clarify. No strong view |
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**Summary 2**: TBD.

**Proposal 2**: TBD.

## 3.3 configuredGrantTimer and cg-RetransmissionTimer

[R2-2208024](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208024.zip) Clarification on configuredGrantTimer and cg-RetransmissionTimer Nokia, Nokia Shanghai Bell CR Rel-16 38.321 16.9.0 1362 - F TEI16, NR\_unlic-Core

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It is explained that the current spec is not clear whether the MAC checks whether the *configuredGrantTimer*/*cg-RetransmissionTimer* is running at the time of PUSCH transmission or at the time when the MAC processes the UL grant. It is proposed to clearly specify that the MAC checks whether the timer is running at the time of corresponding PUSCH transmission, i.e., regardless of when the UE starts processing of the UL grant.

**Question 3**: Do companies agree with the issue? If yes, are the proposed changes fine?

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| Answers to Question 3 |
| Company | Yes/No | If yes, are the proposed changes fine or are there any suggestion for improvement? If no, why? |
| Samsung | No | Even in Rel-15, UE checks if *configuredGrantTimer* is running immediately before the MAC delivers configuration grant information to the HARQ entity. This is not a Rel-16 specific issue. There is no other way to interpret the current text even if the proposed changes are correct. In our view, the proposed changes are not essential so not needed. |
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**Summary 3**: TBD.

**Proposal 3**: TBD.

## 3.4 RA Resource Selection

[R2-2208254](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208254.zip) Correction on RA Resource Selection in Rel-15 vivo CR Rel-15 38.321 15.13.0 1373 - F NR\_newRAT-Core

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It is explained that, during RA procedure, the MAC does not deliver the selected SSB/CSI-RS to the PHY, which results in degraded performance of UL transmission. It is proposed to clarify that the MAC indicates the selected SSB/CSI-RS to the PHY.

**Question 4**: Do companies agree with the issue? If yes, are the proposed changes fine?

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| Answers to Question 4 |
| Company | Yes/No | If yes, are the proposed changes fine or are there any suggestion for improvement? If no, why? |
| Samsung | No | It is already assumed that this information is already sent to PHY layer. MAC does not capture all relevant cross-layer interaction. No room for misunderstanding. |
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**Summary 4**: TBD.

**Proposal 4**: TBD.

# 4 Conclusion

TBD.