**3GPP TSG-RAN WG2 Meeting #111-eR2-200xxxx**

Electronic Meeting, 17th – 28th August 2020

**Agenda item: 5.4.3**

**Source: vivo**

**Title: Report of ‎[AT111-e][011][NR15]** **UE cap Additions (vivo)**

**Document for: Discussion and Agreement**

# 1 Introduction

This is to report the result of the following email discussion in RAN2#111-e Meeting [1].

* [AT111-e][011][NR15] UE cap Additions (vivo)

Scope: Treat [R2-2007303](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007303.zip), [R2-2007304](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007304.zip), [R2-2007305](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007305.zip), [R2-2007306](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007306.zip), [R2-2007212](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007212.zip), [R2-2007213](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007213.zip), [R2-2007084](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007084.zip) (proponents to drive)

Part 1: Decision whether to make corrections, identify agreeable parts. Identify Controversial issues for on-line treatment (if any).

Deadline: Aug 20, 0900 UTC.

Part 2: For agreeable parts, continuation to agree CRs.

Deadline: Aug 26, 0900 UTC.

The remainder of this document is organized as the following. The discussions are in Section 2 and the conclusions are summaried in Section 3.

# 2 Discussion

To make it easier to find the correct contact delegate in each company for potential follow-up questions, the rapporteur encourages the delegates who provide input to provide their contact information in this table:

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| --- | --- |
| Company | Delegate contact |
| Ericsson | Mattias Bergström (mattias.a.bergstrom@ericsson.com) |
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## 2.1 Corrections on UE capability constraints

Companies are invited to provide their views/comments on the following CRs in the following table.

[R2-2007303](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007303.zip) Corrections on UE capability constraints vivo CR Rel-15 36.331 15.10.0 4377 - F NR\_newRAT-Core

[R2-2007304](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007304.zip) Corrections on UE capability constraints vivo CR Rel-15 38.306 15.10.0 0377 - F NR\_newRAT-Core

[R2-2007305](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007305.zip) Corrections on UE capability constraints vivo CR Rel-16 36.331 16.1.1 4378 - A NR\_newRAT-Core

[R2-2007306](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007306.zip) Corrections on UE capability constraints vivo CR Rel-16 38.306 16.1.0 0378 - A NR\_newRAT-Core

|  |  |  |
| --- | --- | --- |
| Company | **Agree as is;**  **Agree with changes;**  Disagree | Comments |
| Lenovo | 7303/7305: Disagree  7304/7306: Agree with changes | To 7303/7305: The need of #minCellperMeasObjectNR = 32 was already discussed in RAN2#109bis-e in the context of Google CR R2-2003684 and as part of offline discussion [059], see summary in R2-2004102. Conclusion was that there is no need to specify such a requirement. The reason is that for NR only detected cells are supported, i.e. UE will not be configured by MeasObjectNR with a list of NR cells to measure.  To 7304/7306: In NR MeasObjectEUTRA a list of E-UTRA black cells can be configured by blackCellsToAddModListEUTRAN = SEQUENCE (SIZE (1..maxCellMeasEUTRA)) OF EUTRA-BlackCell and thus, not ranges of black cells. Therefore, it’s ok to define #minBlackCellperMeasObjectEUTRA = 32 but not #minBlackCellRangesperMeasObjectEUTRA = 32 as proposed.  Furthermore, cover page issues need to be fixed: i) impact analysis is not complete, ii) in “Other specs affected” the box “N” to “Other core specs” needs to be ticked and the entry to “Other core specs” needs to be removed as it does not apply to shadow CRs. |
| Nokia | Agree with Lenovo’s feedback | Agree with Lenovo’s feedback |
| Huawei, HiSilicon | Agree with Lenovo’s feedback | Agree with Lenovo’s feedback |
| Ericsson | Agree with Lenovo’s feedback | Agree with Lenovo’s feedback |
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**Proposed conclusion:**

TBD

## 2.2 On support of 35MHz and 45MHz channel bandwidth

Companies are invited to provide their views/comments on the following CRs in the following table.

[R2-2007212](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007212.zip) CR on support of 35MHz and 45MHz channel bandwidth (R15) ZTE Corporation, Sanechips CR Rel-15 38.306 15.10.0 0374 - F NR\_newRAT-Core

[R2-2007213](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007213.zip) CR on support of 35MHz and 45MHz channel bandwidth (R16) ZTE Corporation, Sanechips CR Rel-16 38.306 16.1.0 0375 - A NR\_newRAT-Core

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| --- | --- | --- |
| Company | **Agree as is;**  **Agree with changes;**  Disagree | Comments |
| Lenovo | Disagree | It is too early to introduce the new channel BWs, RAN2 can wait until RAN4 completed their work and sent LS to RAN2 on the signalling support acc. to the note below as stated in the WID RP-201321.  *NOTE: Once RAN4 introduced the new channel bandwidth, the LS for related signalling will be sent to RAN2. So no RAN2 TU needs be requested.* |
| Nokia | Disagree | Agree with Lenovo’s feedback |
| Huawei, HiSilicon | Disagree | Agree with Lenovo’s feedback, it is too early. |
| Ericsson | Disagree | The CRs are technically fine to us (could consider to add a “respectively” as below), but we agree with the comments by other companies and wait for RAN4 LS.  For FR1, the first three bits in *channelBWs-DL-v1590* starting from the leading / leftmost bit indicate 70, 35, 45 MHz, respectively, and all the remaining bits in *channelBWs-DL-v1590* shall be set to 0. |
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**Proposed conclusion:**

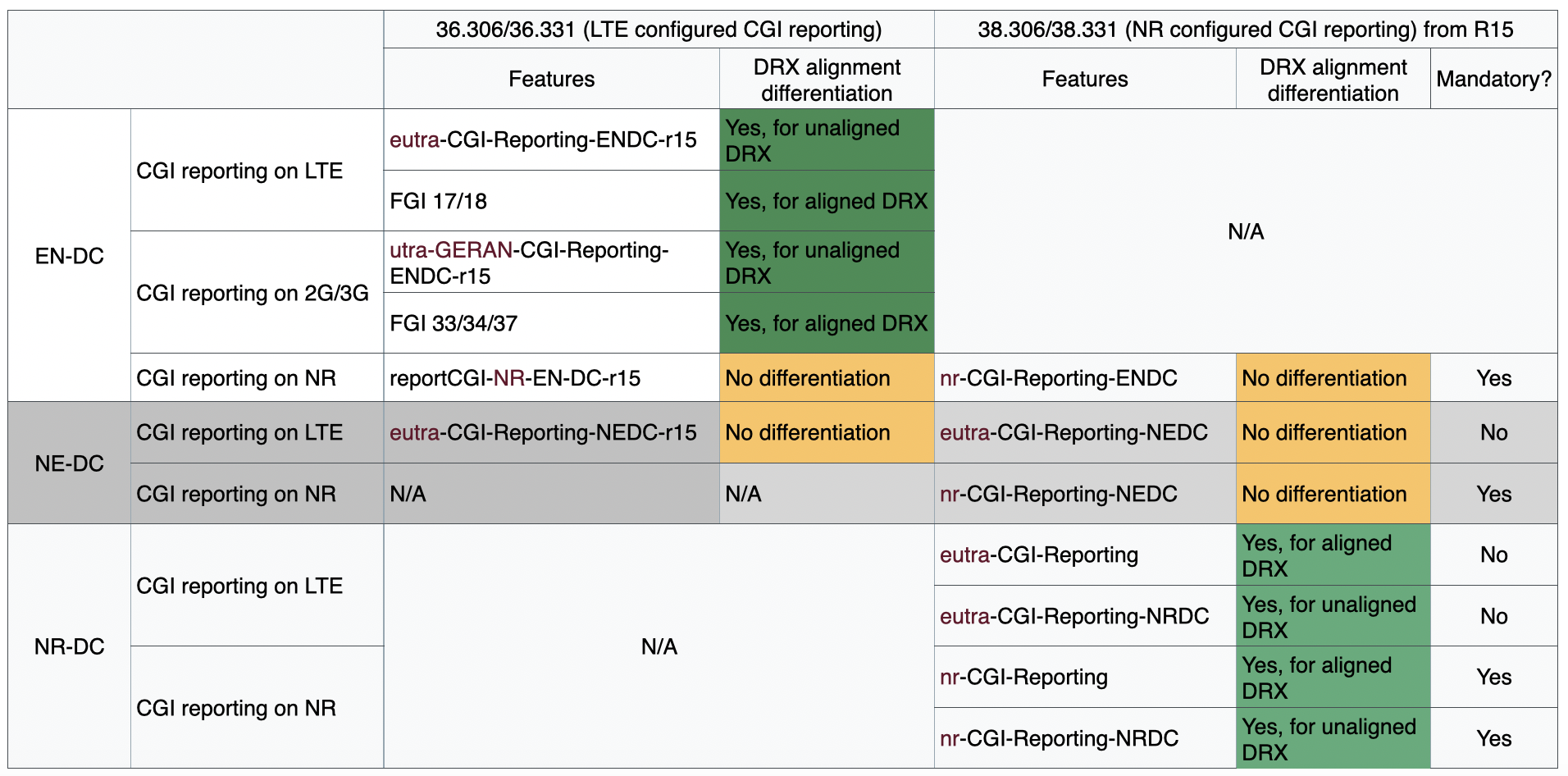
TBD

## 2.3 On CGI reporting in EN-DC and NE-DC

[R2-2007084](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007084.zip) Clarification on CGI reporting in EN-DC and NE-DC Apple discussion Rel-15 NR\_newRAT-Core

This paper discusses the UE capabilities on supporting CGI reporting in case that MN and SN are configured with unaligned or aligned DRX pattern. The current specs only support the DRX alignment differentiation capabilities on MN/SN for NR-DC and EN-DC (on UTRA/GERAN/LTE), below is a summary from [R2-2007084](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_111-e\Docs\R2-2007084.zip) on CGI reporting for EN-DC, NE-DC and NR-DC.

Table 1 - CGI reporting for EN-DC/NE-DC/NR-DC



The DRX alignment differentiation capabilities can be applicable to other scenarios, but whether to enable such a flexibility for other scenarios can be further considered. Thus, companies are invited to provide their views/comments on the following questions in the following tables.

**Question 1: Should the DRX alignment differentiation on MN/SN for CGI reporting on NR in EN-DC be introduced for both LTE and NR spec?**

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| --- | --- | --- |
| Company | **Agree?**  (Yes or No) | Comments |
| Nokia | No | Rel-15 changes are not acceptable as the use case is not really clear and what is broken in the specification. Enhancements in general are not okay for Rel-15. |
| Huawei, HiSilicon | No | It is a NBC change and it is unacceptable. |
| Ericsson | - | Not agreed online. |
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**Question 2: Should the DRX alignment differentiation on MN/SN for CGI reporting on LTE and NR in NE-DC be introduced for both LTE and NR spec?**

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| --- | --- | --- |
| Company | **Agree?**  (Yes or No) | Comments |
| Nokia | No | Same as above. |
| Huawei, HiSilicon | No | This capability was discussed in last meeting, it seems there is no need of having such differentiation. |
| Ericsson | - | Not agreed online. |
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**Proposed conclusion:**

TBD

# 3 Conclusion

In the previous sections we made the following observations:

TBD

Based on the discussion in the previous sections we propose the following:

TBD

# 4 References

[1] R2-111e Chair Notes 2020-08-17 1000 UTC.docx