3GPP RAN WG2 Meeting #119bis-e draft - R2-2210812

E-Meeting October 10-19, 2022

Agenda Item: 6.20.2

Source: ZTE Corporation (rapporteur)

Title: [DRAFT] Report of [AT119bis-e][203][71 GHz] Corrections to 71 GHz (ZTE)

Document for: Discussion, Decision

# Introduction

This document is to kick off the following email discussion:

* [AT119bis-e][203][71 GHz] Corrections to 71 GHz (ZTE)

      Scope: Discuss the documents marked for this discussion under AI 6.20.x and provide agreeable versions of CRs (if any) for endorsement.

Intended outcome: Report in in [R2-2210812](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119bis-e/Docs/R2-2210812.zip).

Deadline: Deadline 2 (report) / Deadline 3 (CRs)

# Contact information

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

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| Company | Contact details |
| Ericsson | min.w.wang@ericsson.com |
| ZTE | eswar.vutukuri@zte.com.cn |
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# Discussion

## CP changes

In [1], a number of changes were proposed with the following reasons:

1. Some features introduced in shared spectrum in FR1 (such as CAPC, LSB of ssb-SubcarrierOffset and intraCellGuardBandsDL-List, intraCellGuardBandsUL-List etc) are not applicable to FR2-2 and hence a clarification is needed for these.
2. In the field description of channelAccessMode, when channel access mode is configured as dynamic, the referenced clauses in the RAN1 specs are incorrect.
3. *~~According to RAN1’s LS (R1-2208231), channelAccessMode2 is expected to be configured in the region where LBT is mandated this is not captured currently.~~*
4. To make specs clearer, for *co\_DurationList*, the maximum value for other SCS should also be clarified.
5. *CO-DurationPerCell should be CO-DurationsPerCell.*

Apart from the change related to the RAN1 LS (i.e., 3. Above), do companies think other changes are okay?

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| Q1: Do companies agree with changes 1), 2), 4) and 5) in [1] ? | | |
| Company | Agree/Disagree/Comments | Comments |
| Ericsson | agree | Changes are not essential, but it is fine. |
| ZTE | agree | Proponent |
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In [3], it was pointed out that the FR2-2 related preference indication configurations should be released upon RRC resume, but this is not done in the RRC today. The following configurations are proposed to be released upon RRC Resume:

* *maxBW-PreferenceConfigFR2-2*
* *maxMIMO-LayerPreferenceConfigFR2-2*
* *minSchedulingOffsetPreferenceConfigExt*

We can check if companies agree with this change.

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| Q2: Do companies agree that *maxBW-PreferenceConfigFR2-2, maxMIMO-LayerPreferenceConfigFR2-2, minSchedulingOffsetPreferenceConfigExt* should be released upon RRC Resume as proposed in [3]? | | |
| Company | Agree/Disagree/Comment | Comments |
| Ericsson | agree |  |
| ZTE | agree |  |
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Finally, during the online discussion we discussed the RAN1 LS in R1-2208231 and the following was agreed:

* Use text saying “The network configures this field if channel access procedures are required for the serving cell band within this region.” to description of channelAccessMode-2. Can clarify whether this is only used in common signalling (e.g. ServingCellConfigCommon(SIB))
* Offline discussion [203] to handle the CR details

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| Q3: Do companies have any final comments to the wording of the text agreed above? | |
| Company | Comments |
| Ericsson |  |
| ZTE | No strong view, but we just wanted to point out that the standard language we use in RRC is:  “The network always configures *xxx ...*  if yyy …”  The above online text may be slightly misleading in that it may be misinterpreted as:  “the network configures this only if channel access procedures are required for the region”.  However, I guess the network can also configure this even if the regulatory requirements don’t need it (it is up to network in this case). So perhaps we should use standard RRC language rather than introducing new phrases ?? |
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One related issue is whether we should capture this only for common signalling IEs (ServingCellConfigCommon and ServingCellConfigCommonSIB) or should the change be also captured for the dedicated IE in *ServingCellConfig?*

Since the UE configuration can be resulting from any of these IEs it seems logical to clarify this in all places. Companies can comment whether this is agreeable or not.

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| Q4: Do companies agree that the text according to Q3 should be captured for the field description of channelAccessMode2 in *ServingCellConfig, ServingCellConfigCommon and ServingCellConfigCommonSIB*? | | |
| Company | Yes/No | Comments  (if the answer is No, please clarify which IEs it should be captured for and why) |
| Ericsson | Yes |  |
| ZTE | Yes | All signalling options are feasible, so, the text should apply to all IEs used to configure channelAccessMode2. |
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## UP changes

In [2], it was pointed out that for shared spectrum channel access in FR2-2, a new table including channel access type is introduced, which is different with operation in shared spectrum channel access in FR1. In addition, channel access mode is optionally configured. Only when it is configured, ChannelAccess-Cpext field in successRAR is present. The current description for this in the MAC spec is not correct and needs to be updated hence.

We can check if companies agree with this reasoning and the proposed change.

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| Q5: Do companies agree with the correction to the description of the ChannelAccess-CPext field as proposed in [2]? | | |
| Company | Agree/Disagree/Comment | Comments |
| Ericsson | disagree | Sufficient to refer to RAN1 spec where the channel access mode will be checked. Whether and how channel access/LBT is performed is invisible to the MAC layer. MAC layer shall not check this. |
| ZTE | Agree (proponent) | It would have been okay if we only used a reference to the RAN1 specs for this in the first place. However, currently there is already some description for this in MAC spec. Either we could remove this and just use a reference or we should make this referenced text accurate as proposed in the CR. Otherwise, the text in the MAC spec is inaccurate. |
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# References

1. [R2-2209651](C:\\evutukuri\\work\\5G\\RAN2\\docs\\R2-2209651.zip) CP corrections for NR operation to 71GHz ZTE Wistron Telecom AB CR Rel-17 38.331 17.2.0 3499 - F NR\_ext\_to\_71GHz-Core

1. [R2-2209652](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119bis-e/Docs/R2-2209652.zip) UP corrections for NR operation to 71GHz ZTE Wistron Telecom AB CR Rel-17 38.321 17.2.0 1414 - F NR\_ext\_to\_71GHz-Core

1. [R2-2210727](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119bis-e/Docs/R2-2210727.zip) Release FR2-2 related preference indication configurations in RRC resume Google Inc. CR Rel-17 38.331 17.2.0 3564 - F NR\_ext\_to\_71GHz-Core

# Conclusions

TBD