3GPP TSG-RAN WG2 Meeting #119-e R2-22xxxxx

Electronic, 17th – 29th August, 2022

Source: Qualcomm Incorporated (Rapporteur)

Title:  [AT119-e][241][Slicing] Cell reselection corrections to RAN slicing

Document for: Discussion and Decision

# 1 Introduction

This document aims at gathering and summarizing companies views for the following offline discussion:

* [AT119-e][241][Slicing] Cell reselection corrections to RAN slicing (Qualcomm)

      Scope: Discuss cell reselection aspects for RAN slicing marked for this discussion and attempt to provide 38.304 CR if corrections are required.

 Intended outcome: Report in in [R2-2208773](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208773.zip). Merged 38.304 CR in [R2-2208774](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208774.zip).

 Deadline: Deadline 1 (report) / Deadline 2 (final CRs)

The following contributions are considered in this email discussion according to Chair indication.

By Email [241] (13)

[R2-2207678](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207678.zip) Miscellaneous corrections to slice-specific cell reselection Spreadtrum Communications discussion Rel-17

RAN sharing and equal priorities:

[R2-2208003](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208003.zip) Support of RAN sharing and equivalent PLMNs with slice specific cell reselection Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_slice-Core

[R2-2208446](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208446.zip) Correction on the rules in equal priority case for slice-based cell reselection CMCC, OPPO, Huawei, HiSilicon CR Rel-17 38.304 17.1.0 0279 - F NR\_slice-Core

[R2-2208519](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208519.zip) Issues with slice specific cell reselection Samsung R&D Institute India discussion

[R2-2207952](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207952.zip) Discussion on the details of slice specific cell reselection Huawei, HiSilicon discussion Rel-17 NR\_slice-Core

[R2-2208143](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208143.zip) Corrections on slice-based cell re-selection in TS 38.304 Ericsson discussion Rel-17 NR\_slice-Core

[R2-2207934](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207934.zip) CR to cleanup slice specific cell reselection Apple CR Rel-17 38.304 17.1.0 0268 - F NR\_slice-Core

[R2-2207953](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207953.zip) Corrections on TS 38.304 for RAN Slicing Huawei, HiSilicon CR Rel-17 38.304 17.1.0 0269 - F NR\_slice-Core

[R2-2208517](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208517.zip) Correction on per-TA NSAG for slice specific cell reselection Qualcomm Incorporated CR Rel-17 38.304 17.1.0 0280 - F NR\_slice-Core

[R2-2208607](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208607.zip) 38.304 CR Corrections on slice-based cell reselection Xiaomi, OPPO, CMCC draftCR Rel-17 38.304 17.1.0 F NR\_slice-Core

[R2-2208296](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208296.zip) Possible configuration mismatch in slice specific cell reselection Kyocera discussion

[R2-2207337](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207337.zip) Correction for cell reselection Lenovo discussion NR\_slice-Core Late

[R2-2207338](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207338.zip) CR for Correction for cell reselection Lenovo CR Rel-17 38.304 17.1.0 0259 - F NR\_slice-Core Late

# 2 Company contact details

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| Company | Name | Email Address |
|  Apple | Yuqin Chen | yuqin\_chen@apple.com |
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# 3 Discussion

**Issue 1: Slice cell list related issues**

Contribution R2-2208519 and R2-2208143 discuss slice cell list related issue, and they have proposals in the following table. Rapporteur also provides initial view in the table for discussion reference.

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| Contribution | Proposal | Rapporteur’s view |
| R2-2208519 Samsung R&D Institute India | (Issue 1-1) Proposal 7: RAN2 to discuss whether gNB can avoid duplication of the sliceCellListNR for multiple NSAGs associated with the same TAC.(Issue 1-2) Proposal 8: If the above duplication can be avoided, when the UE receives sliceCellListNR for one NSAG associated with a TAC, it may use the same sliceCellListNR for other NSAGs associated with the same TAC. |  |
| R2-2208143 Ericsson | - if sliceCellListNR is provided for the frequency, the cell is either listed in sliceAllowedCellListNR or not listed in sliceExcludedCellListNR(Issue 1-3) Proposal 1 The section on the sliceCellListNR is corrected as described above(Issue 1-4) Proposal 2 If the UE have recently received slice support information from a Target cell, or another cell in same TA, and it is not the same as indicated by the cell list, the UE may use the slice support information received from the cell to update the cell re-selection priorities. | Rapporteur understands network should ensure correct and complete cell list configuration to UE. The scenario mentioned in the contribution should be a rare case. |

Companies please to provide view on each sub-issue (Issue1-x) for Issue 1 in the above table.

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| Company | View or comment on each sub-issue |
| Apple | Issue 1-1/1-2: Though it is reasonable that for the same TAC, the cell list should be the same. But at this late stage, do we really need to optimize ASN.1? Issue 1-3: P1 is editorial change, no strong view.Issue 1-4: P2 is pure UE implementation, should have no impact to spec. |
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**Issue 2: Serving cell support for NSAG**

Contribution R2-2207952 clarifies how to indicate the NSAG for serving cell and also frequency priority for serving frequency as follow, Rapporteur also provides initial view in the table for discussion reference.

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| Contribution | Proposal | Rapporteur’s view |
| R2-2207952 Huawei, HiSilicon | (Issue 2-1) Proposal 1: It is proposed that RAN2 agree to indicate the serving cell by using sliceAllowedCellListNR or sliceExcludedCellListNR.(Issue 2-2) Proposal 2: It is proposed that RAN2 agree the following:Frequencies that support at least one NSAG provided by NAS are prioritised in the order of the NAS-provided priority:- for the NSAG with highest priority supported on the frequency for the non-serving frequencies- for the NSAG with highest priority supported on the serving cell for the serving frequency | P1: Rapporteur understands slice specific cell reselection is not applied to intra-frequency and seems the NSAG indicated in dl-ImplicitCarrierFreq-r17 for serving frequency should be supported by serving cell. Maybe the proponent need to clarity in which case the indicated NSAG for serving frequency is not supported by serving cell. |

Companies please to provide view on each sub-issue (Issue2-x) for Issue 2 in the above table.

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| Company | View or comment on each sub-issue |
| Apple | Issue 2-1: Agree. We have the same proposal in R2-2207932/R2-2207933. Regarding rapporteur’s question, it is possible if serving cell is at the border of the TA then serving cell can still configure the NSAG available in neighbour cells which belong to another TA. And again, slice specific related frequency configuration is critical to serving frequency and serving cell for UE to determine other frequencies’ priority. Note that the higher priority and lower priority of inter-frequencies are determined based on serving frequency’s priority.Issue 2-2: Do not agree. We are afraid something is missing here. There may be a case where intra-freq cell reselection criteria is met but the best cell (which is not current camping cell) does not support the NSAG. Then serving frequency's priority would be deprioritized. In this scenario, serving frequency's priority is not determined by serving cell but by the best cell on this frequency. |
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**Issue 3: Dedicated slice specific cell reselection related**

The following contributions proposes changes or clarifications related to dedicated slice specific cell reselection. Rapporteur provides initial view for the some proposals for reference.

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| Contribution | Proposal | Rapporteur’s initial view |
| R2-2208519 Samsung R&D Institute India | (Issue 3-1) Proposal 1: The UE doesn’t perform slice based cell reselection if SIB16 is not broadcasted even if it has dedicated slice information available.(Issue 3-2) Proposal 2: If a frequency is present in received FreqPriorityListDedicatedSlicing and not in FreqPriorityListSlicng in SIB16, the UE considers none of the (priortised) NSAGs are available for this frequency.(Issue 3-3) Proposal 3: If an nsag-id in the FreqPriorityListDedicatedSlicing is not present in the FreqPriorityListSlicing in SIB16, the UE considers this (prioritised) NSAG is not supported by the frequency. | P1: The intention of dedicated NSAG based cell reselection is to provide the UE the configuration which is not included in SIB. For the issues the contribution mentioned, rapporteur understands it should rely on RAN implementation to guarantee the dedicated slice frequency priority is valid, i.e. it only configure for the frequencies with all cells deployed NSAG. otherwise, RAN should broadcast the cell list in SIB.P3: SliceInfoListDedicated-r17 may need to be changed to mandatory as proposed in R2-2207818. |
| [R2-2207934](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207934.zip)/ R2-2207932 Apple | (Issue 3-4) 5) Clarify that UE shall only perform slice specific cell reselection evaluation for NR frequencies supporting the NSAG(s) and associated valid TAI(s) as received in *RRCRelease* message that are also given in system information of the camping cell. |  |
| R2-2208296 Kyocera | (Issue 3-5) Proposal 1 RAN2 should discuss how to avoid the inconsistent configurations by the AMF and the gNB, especially in case the UE has not received any NSAG priority information from the AMF and it received RRC Release containing only nsag-CellReselectionPriority from the gNB, i.e., the UE could not apply any cell reselection priorities.(Issue 3-6) Proposal 2 RAN2 should agree that the UE does not ignore cellReselectionPriority in SIB, in case it has not received NSAG priority from the AMF and RRC Release contains only nsag-CellReselectionPriority.Proposal 3 RAN2 should agree the text proposal for TS 38.304 as above. | Rapporteur understands that this issue was discussed in the last meeting, and was agreed RAN should provide both of dedicated cell reselection priority and dedicated slice specific cell reselection priority if the RAN wants the UE to perform legacy cell reselection. if the legacy cell reselection priority is absent in release message, that means NW does not require UE to perform legacy cell reselection. |

Companies please to provide view on each sub-issue (Issue 3-x) for Issue 3 in the above table.

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| Company | View or comment on each sub-issue |
| Apple | Issue 3-1/3-2/3-3: We agree with P1-P3 in contribution 8519.Issue 3-4: proponent.Issue 3-5: Since RAN node has no knowledge whether AMF configures UE with NSAG priority, we do feel the problematic scenario may happen. But we would like to discuss if NW specific solution should be considered to avoid this mismatch, e.g, some signaling from AMF to RAN about NSAG priority configuration. |
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**Issue 4: Re-deriving reselection priority**

The following contributions propose changes or clarifications related to re-derive reselection priority. Rapporteur provides initial view for the some proposals for reference.

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| Contribution | Proposal | Rapporteur’s view |
| R2-2208519 Samsung R&D Institute India | (Issue 4-1) Proposal 4: Clarify that UE behavior of re-deriving reselection priority specified in clause 5.2.4.5 is also applicable to the highest ranked cell.(Issue 4-2) Proposal 5: If the best cell or highest ranked cell in a frequency doesn’t support any prioritized NSAG, UE shall re-derive a re-selection priority of the frequency as if none of the NSAG(s) provided by NAS are supported according to clause 5.2.4.11. |  |
| [R2-2207934](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207934.zip) Apple | (Issue 4-3) 3) The frequency priority re-sorting when the best cell does not support the highest priority NSAG of the frequency should be applied to all frequencies. | Rapporteur clarifies that slice specific cell reselection is not applied for intra-frequency and equal priority inter-frequency cell reselection. The frequency priority re-sorting for serving cell or neighbouring frequencies is used for UE to compare frequency priority for different frequencies. |
| R2-2208607 Xiaomi, OPPO, CMCC | (Issue 4-4) Unify the UE behaviour on the priority re-derivation for inter-frequency and intra-frequency reselection |
| R2-2207337/R2-2207338 Lenovo | (Issue 4-5) RAN2 kindly discuss how NSAG derivation of a cell can be accomplished.(please see Approach A and Approach B in the contribution. Approach B is proposed in the CR R2-2207338). |  |

Companies please to provide view on each sub-issue (Issue 4-x) for Issue 4 in the above table.

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| Company | View or comment on each sub-issue |
| Apple | Proponent. And it seems Issue 4-1/4-2/4-3/4-4 are talking about the same thing.First, we would like to respond to rapporteur’s comment. RAN2 has never agreed that intra-freq and inter-freq with equal priority would not perform priority re-sorting. To us, the priority re-sorting is an operation applicable to all frequencies. And contributions 8519/7934/8607 are proposing the same thing.Issue 4-5: it might be too detailed to describe how UE figures it out.  |
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**Issue 5: NSAG information related**

The following contributions propose changes or clarifications related to NSAG information. Rapporteur provides initial view for the some proposals for reference.

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| Contribution | Proposal | Rapporteur’s view |
| R2-2207952 Huawei, HiSilicon | (Issue 5-1) Proposal 3: When the UE NAS sends the new NSAG priorities to the UE AS, the UE should update the slice specific cell reselection priorities and re-start the procedure of cell reselection based on this updated information. |  |
| [R2-2207934](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207934.zip) Apple | (Issue 5-2) 1) The associated valid TAI should be maintained in NAS and informed to AS layer.(Issue 5-3) 2) Made it clear that UE should consider the NSAG+TAI pair for all serving and neighboring cell, not limited to current TAI. | For Issue 5-2, can indicate whether the change is needed and which option is preferred.For Issue 5-3, can indicate whether the change is needed and what type of change is preferred. |
| R2-2207953 Huawei, HiSilicon | (Issue 5-2) 1) The description “NSAG and their priorities” is changed into “the NSAG information (as specified in TS 24.501 [14])”(Issue 5-3) 2) In the description “the corresponding nsag-ID is indicated for the NR frequency and valid for current TA.”, the current TA is changed into the associated TA |
| R2-2208517 Qualcomm | (Issue 5-2 and Issue 5-3) Correct slice specific cell reselection to take per-TA NSAG into account |
| R2-2207678 Spreadtrum Communications | (Issue 5-3) Proposal 1: When check whether the cell support the slices of an NSAG, the condition of "the corresponding nsag-ID is indicated for the NR frequency and valid for current TA" should be replaced to "the corresponding nsag-ID and TAC (if configured) are indicated for the NR frequency". |  |

Companies please to provide view on each sub-issue (Issue 5-x) for Issue 5 in the above table.

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| Company | View or comment on each sub-issue |
| Apple | Issue 5-1: It’s true but we don’t need to capture it as it is already the case.Issue 5-2: Proponent. It’s preferred a bit to explicitly indicate the NSAG ID + TAC in spec.Issue 5-3: It’s preferred a bit to explicitly indicate the NSAG ID + TAC pair to AS layer. |
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**Issue 6: Deriving re-selection priorities related**

The following contributions propose changes or clarifications related to reselection priorities deriving. Rapporteur provides initial view for the some proposals for reference.

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| Contribution | Proposal | Rapporteur’s view |
| R2-2208143 Ericsson | (Issue 6-1) Proposal 3 Replace all instances of ‘NSAG’s received from NAS’ and similar wordings with the text ‘for the NSAG(s) provided by NAS‘ in the first sentence of the discussed text section.(Issue 6-2) Proposal 4 Change second and third bullet so that the wordings are similar.(Issue 6-3) Proposal 5 Clarify that the third bulled covers two cases.(Issue 6-4) Proposal 6 Add text to the third bullet and remove the fourth bullet to clarify how to prioritize frequencies with no nsag-CellReselectionPriority for the highest prioritized NSAG.Proposal 7 Accept the changes in Annex for 38.304 | Rapporteur thinks existing description is clear and capture rules for various cases, no much motivation to improve the wording. |
| R2-2208446 CMCC, OPPO, Huawei, HiSilicon | (Issue 6-5) Correction in clause 5.2.4.11 to reflect the agreements that the highest slice specific cell reselection priority is applied to this frequency in the case of a frequency with different slice specific frequency priorities in multiple slices/slice groups with the same slice group priority.  |  |

Companies please to provide view on each sub-issue (Issue 6-x) for Issue 6 in the above table.

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| Company | View or comment on each sub-issue |
| Apple | Issue 6-1: fine.Issue 6-2: fine.Issue 6-3: fineIssue 6-4: no need.Issue 6-5: can merge with the proposal of 6-2/6-3. |
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**Issue 7: Support RAN sharing**

The following contribution proposes to add PLMN index to the NSAG-IdentityInfo in SIB16 to support RAN sharing.

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| Contribution | Proposal | Rapporteur’s view |
| [R2-2208003](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208003.zip) Nokia, Nokia Shanghai Bell | Proposal 1: The PLMN index is added to the NSAG-IdentityInfo in SIB16 as an optional element to make simpler the use of slice-based cell reselection in case of RAN sharing. (See TP in Annex.)Proposal 2.1: Add a clarification to 38.331 that the UE should interpret the NSAG identities in slice-based cell reselection information as NSAG identities of the serving PLMN. (See TP in Annex.)Proposal 2.2: RAN2 agrees that there is no need to change anything in slice-based cell selection to support ePLMNs. | Rapporteur understands there were discussion in last RAN2 meeting for RAN sharing supporting, and RAN2 assumed RAN sharing can be implemented by OAM configuration and dedicated slice specific frequency priority as follow. Companies please provides view whether to stick to the RAN2 assumption in the last meeting or add PLMN index to the *NSAG-IdentityInfo* in SIB16.**=> RAN2 assumes RAN sharing works so that networks coordinate the NSAG identifiers, or via network providing dedicated priorities to UE.** |

Companies please provides view whether to stick to the RAN2 assumption in the last meeting or add PLMN index to the *NSAG-IdentityInfo* in SIB16.

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| Company | View or comment |
| Apple | We do not have a strong opinion but just feel it might be too late to re-open the discussion. |
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**Issue 8: Other clarification or correction**

The following contributions propose various clarification or correction. Rapporteur provides initial view for the some proposals for reference.

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| Contribution | Proposal | Rapporteur’s view |
| R2-2208519 Samsung R&D Institute India | (Issue 8-1) Proposal 6: UE needs to consider nsag-CellReselectionSubPriority (or cellReselectionSubPriority) also for deriving/comparing re-selection priorities for slice-based cell reselection in clause 5.2.4.11. | Rapporteur understands the proposal is the common understanding, do we need to clarify something? |
| [R2-2207934](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207934.zip) Apple | (Issue 8-2) 4) Clarify that HSDN and slice capable UE in high speed mode prioritizes the HSDN cell during cell reselection. | Rapporteur understands HSDN cell should have higher priority based current specification, can check whether change is needed. |
| R2-2208495 Samsung | (Issue 8-3) Proposal 3: Update TS38.304 to specify that if UE receives *RRCRelease* with *cellReselectionPriorities*, the UE shall ignore all the priorities provided in system information |  |

Companies please to provide view on each sub-issue (Issue 8-x) for Issue 8 in the above table.

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| Company | View or comment on each sub-issue |
| Apple | Issue 8-1: Agree with rapporteur this should be the common understanding.Issue 8-2: Proponent. If companies feel it is already the common understanding, we are fine to capture it in Chair notes without changing spec.Issue 8-3: We tend to agree with Observation 3 in 8495. But this somehow intertwines with Issue 3-5. |
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# 4 Conclusion

# 5 References

[R2-2207678](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207678.zip) Miscellaneous corrections to slice-specific cell reselection Spreadtrum Communications discussion Rel-17

RAN sharing and equal priorities:

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[R2-2208446](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208446.zip) Correction on the rules in equal priority case for slice-based cell reselection CMCC, OPPO, Huawei, HiSilicon CR Rel-17 38.304 17.1.0 0279 - F NR\_slice-Core

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[R2-2208517](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208517.zip) Correction on per-TA NSAG for slice specific cell reselection Qualcomm Incorporated CR Rel-17 38.304 17.1.0 0280 - F NR\_slice-Core

[R2-2208607](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208607.zip) 38.304 CR Corrections on slice-based cell reselection Xiaomi, OPPO, CMCC draftCR Rel-17 38.304 17.1.0 F NR\_slice-Core

[R2-2208296](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2208296.zip) Possible configuration mismatch in slice specific cell reselection Kyocera discussion

[R2-2207337](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207337.zip) Correction for cell reselection Lenovo discussion NR\_slice-Core Late

[R2-2207338](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_119-e/Docs/R2-2207338.zip) CR for Correction for cell reselection Lenovo CR Rel-17 38.304 17.1.0 0259 - F NR\_slice-Core Late