**3GPP TSG-RAN WG4 Meeting # 100-e R4-210XXXX**

**Electronic Meeting, 16th – 27th August, 2021**

**Agenda item: 6.1.1.6.1**

**Source:** Moderator (Nokia, Nokia Shanghai Bell)

**Title:** Email discussion summary for [100-e][207] NR\_unlic\_RRM\_2

**Document for:** Information

# Introduction

This is the document for the email discussion of the following items under the NR-U RRM performance agenda (email discussion with the flag [100-e][207] NR\_unlic\_RRM\_2):

* 6.1.1.6 RRM performance requirements (38.133) [NR\_unlic-Perf]
	+ 6.1.1.6.1 General [NR\_unlic-Perf]
	+ 6.1.1.6.2 Measurement accuracy requirements [NR\_unlic-Perf]
	+ 6.1.1.6.3 Test cases [NR\_unlic-Perf]
		- 6.1.1.6.3.1 General [NR\_unlic-Perf]
		- 6.1.1.6.3.2 RRC IDLE cell re-selection [NR\_unlic-Perf]
		- 6.1.1.6.3.3 HO (delay and interruptions) [NR\_unlic-Perf]
		- 6.1.1.6.3.4 RRC Re-establishment [NR\_unlic-Perf]
		- 6.1.1.6.3.5 RRC Connection Release with Redirection [NR\_unlic-Perf]
		- 6.1.1.6.3.6 Random access [NR\_unlic-Perf]
		- 6.1.1.6.3.7 Timing (transmit timing and TA) [NR\_unlic-Perf]
		- 6.1.1.6.3.8 BWP switching delay and interruptions [NR\_unlic-Perf]
		- 6.1.1.6.3.9 PSCell addition/release (delay and interruption) [NR\_unlic-Perf]
		- 6.1.1.6.3.10 SCell activation/deactivation (delay and interruption) [NR\_unlic-Perf]
		- 6.1.1.6.3.11 Other interruptions [NR\_unlic-Perf]

As this work item is in maintenance mode, and only few discussion papers are left, delegates are encouraged to comment on the Draft CRs and discussion points on both 1st and 2nd round of discussion.

The list of topics covered in this email thread is

* Topic #1: CCA models
	+ Sub topic 1-1: CCA models
		- Issue 1-1: Avoiding LMAX in test cases with DRX
* Topic #2: Test case specific details
	+ Sub topic 2-1: RRC Connection Release with Redirection
		- Issue 2-1: Configuration of LCCA and WCCA for RRC connection release with redirection test cases
	+ Sub topic 2-2: SCell activation/deactivation
		- Issue 2-2: Configuration of LCCA and WCCA for SCell activation/deactivation

Moderator’s note: This email thread only covers part of the NR-U RRM performance requirements. Papers under the agenda items 6.1.1.6.3.12 to 6.1.1.6.3.20 are covered in the email thread [100-e][206] NR\_unlic\_RRM\_1.

Please remember to fill in the contact information of the delegates answering to this email thread.

# Topic #1: CCA models

## Companies’ contributions summary

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| **T-doc number** | **Company** | **Proposals / Observations** |
| AI 6.1.1.6.3.1 |  | General |
| R4-213227 | Nokia, Nokia Shanghai Bell | Observation 1: Configuring the CCA model with a large WCCA and small LCCA results in a decrease on the minimum achievable CCA success probability, and may reduce CCA failures significantlyObservation 2: In many TCs with DRX, the large values required WCCA would force the CCA model to reduce the CCA failures, and the change for failures during DRX active periods would be significantly reduced. Proposal 1: The CCA model should only consider CCA failures within DRX active period when evaluating LCCA. |

## Open issues summary

### Sub-topic 1-1 CCA models

*Sub-topic description:*

*On this subtopic only 1 discussion paper has a proposal. This proposal is meant to clarify the behavior of LMAX limitation on test cases with DRX.*

*Open issues and candidate options before e-meeting:*

**Issue 1-1: Avoiding LMAX in test cases with DRX**

* Proposals
	+ Option 1 (R4-213227): The CCA model should only consider CCA failures within DRX active period when evaluating LCCA
	+ Option 2: Other option?
* Recommended WF
	+ Discuss if Option 1 can be agreed

## Companies views’ collection for 1st round

### Open issues

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| **Company** | **Comments** |
| XXX | Sub topic 1-1: CCA modelsIssue 1-1: Avoiding LMAX in test cases with DRX… |
| MTK | More discussion is needed. We understood the intention but we are thinking about other approach. Because the SMTC and DRX on-duration may not be aligned, and the UE is not required to determine the availability of SMTC occasions more frequent than once per DRX cycle. In other words, UE may measure SMTC outside DRX on duration, and if the SMTC is not available, then the L should also be increased, i.e. we cannot just increase L within DRX on-duration. The alternative would be: L~~\_CCA~~ increases on per DRX basis. At the end of each DRX cycle, if one of SMTC is not successfully transmitted during this DRX cycle, increase L~~\_CCA~~ by 1. Further clarificationWe realize the notation of L\_CCA would be misleading, since it serves as Lmax in test. We would use L to note the failure count and to clarify our thinking with the illustration below: Assume 2 SCTCs per DRX, Lmax is 2.

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| **CCA success** | **1** | **0** | **1** | **1** | **0** | **1** | **?** | **?** |
| **Failure count (L)** | 0 | 1 | 1 | 1 | 1 | 2 |  |  |
| **DRX #** | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 |

CCA on the next DRX should be successful on “?”, because L meet Lmax. Hope it clarifies.  |
| Nokia | Sub topic 1-1: CCA modelsIssue 1-1: Avoiding LMAX in test cases with DRXWe think we need a solution for this case like in Option 1. We think it is important to make this distinction on the CCA failures depending on the DRX state. If we don’t do it, it will be hard to configure LCCA such that Lmax is not exceeded during a test run. @Mediatek: Thinking about your proposal, we need some clarification. From what I understand your proposal would work that way (please confirm if that understanding is correct):* You have a certain LCCA configuration for the test case and DRX cycle.
* Within one DRX cycle, if there is more than 1 CCA failure, you increase the LCCA by one,
	+ That means that if LCCA is exceeded on the last DRX cycle, it will be allowed again in the next DRX cycle

One problem I have is that this proposal would allow for the CCA model to generate 1 error exactly in every time the UE is measuring SMTC. In that case, the UE would still exceed Lmax and the parameter LCCA of the CCA model would not help preventing that from happening. <Nokia> Comment from 18/08 after MTK 2nd replyWe understand now the confusion on L and LCCA. We still see that the proposed solution would decrease too much the effective CCA failure probability. I have one example here considering the PCCA=0.9375, and a DRX period of 640 msIn that situation, every DRX cycle has 32 STMC occasions, which means a probability of 1-0.937532=0.87 that at least 1 STMC is unavailable. If we considering that only 2 of these SMTC occasions are monitored by the UE, the probability of a CCA failure in the monitoring window is 1 – 0.93752=0.12. In the example we gave in our paper, the configuration would need to be LCCA=2, and WCCA=8320 ms, that would mean a total of 13 DRX cycles. In this example, if we implement the proposal from MTK, what we expect is that LCCA is exceeded in the first 2-3 DRX cycles. That would mean that the remaining 6 s of that period are free of LBT failures. Additionally, the chance that the UE experiences any LBT failure within that 2 s is extremely low, and would certainly fall below the typical 10% error margin for statistical tests. So we think the proposed solution would also not help.  |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

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|  | **Status summary**  |
| **Sub-topic #1** | *Tentative agreements:**Candidate options:**Recommendations for 2nd round:* |

## Discussion on 2nd round (if applicable)

# Topic #2: Test case specific details

## Companies’ contributions summary

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| **T-doc number** | **Company** | **Proposals / Observations** |
| AI 6.1.1.6.3.5 |  | RRC Connection Release with Redirection |
| R4-2113234 | Nokia, Nokia Shanghai Bell | Observation 1: If during the time to identification of NR cell the number of unavailable SMTC occasions exceed L1,max the UE initiates cell selection procedure. Proposal 1: Configure CCA model with LCCA\_DL=8 and WCCA\_DL=Tidentify-NR\_CCA for the test cases of RRC connection release with redirection under CCA. |
| AI 6.1.1.6.3.10 |  | SCell activation/deactivation (delay and interruption) |
| R4-2113237 | Nokia, Nokia Shanghai Bell | Observation 1: The number of CCA failures in SCell activation requirements is limited by L1,max, L2,1,max, L2,2,max, L3,1,max, and L3,2,max, whose usage depends on the scenario and applies for the activation time Tactivation\_time\_withCCA. Observation 2: For a SMTC period of 20 ms L1,max = L2,1,max = L2,2,max = L3,1,max = L3,2,max = 2. Proposal 1: Configure CCA model with LCCA\_DL=2 and WCCA\_DL= Tactivation\_time\_withCCA for the test cases of RLM in-sync test cases in non-DRX mode. |

## Open issues summary

### Sub-topic 2-1: RRC Connection Release with Redirection

*Sub-topic description:*

*For this subtopic only 1 discussion paper was contributed to the meeting, discussing the CCA parameter configuration for RRC connection release with redirection.*

*This configuration is important to be defined in order to avoid reaching LMAX.*

*Open issues and candidate options before e-meeting:*

**Issue 2-1: Configuration of LCCA and WCCA  for RRC connection release with redirection test cases**

* Proposals
	+ Option 1 (R4-2113234): Configure CCA model with LCCA\_DL=8 and WCCA\_DL=Tidentify-NR\_CCA for the test cases of RRC connection release with redirection under CCA.
	+ Option 2: Other options?
* Recommended WF
	+ Can Option 1 be agreed?

### Sub-topic 2-2 SCell activation/deactivation

*Sub-topic description:*

*For this subtopic only 1 discussion paper was contributed to the meeting, discussing the CCA parameter configuration for RRC connection release with redirection.*

*This configuration is important to be defined in order to avoid reaching LMAX.*

*Open issues and candidate options before e-meeting:*

**Issue 2-2: Configuration of LCCA and WCCA  for SCell activation/deactivation**

* Proposals
	+ Option 1 (R4-2113237): Configure CCA model with LCCA\_DL=2 and WCCA\_DL= Tactivation\_time\_withCCA for the test cases of SCell activation and deactivation test cases in non-DRX mode.
	+ Option 2: other options?
* Recommended WF
	+ Can Option 1 be agreed?

## Companies views’ collection for 1st round

### Open issues

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| **Company** | **Comments** |
| XXX | Sub topic 2-1: RRC Connection Release with RedirectionIssue 2-1: Configuration of LCCA and WCCA for RRC connection release with redirection test cases…Sub topic 2-2: SCell activation/deactivationIssue 2-2: Configuration of LCCA and WCCA for SCell activation/deactivation…. |
| Nokia | Sub topic 2-1: RRC Connection Release with RedirectionIssue 2-1: Configuration of LCCA and WCCA for RRC connection release with redirection test casesWe agree with Option 1. We understand that this is the correct CCA configuration that will avoid the test case to reach Lmax for RRC connection release with redirection as defined in clause 6.2.3.2.3 of 38.133. Sub topic 2-2: SCell activation/deactivationIssue 2-2: Configuration of LCCA and WCCA for SCell activation/deactivationWe agree with Option 1This configuration avoids reaching the limits L1,max, L2,1,max, L2,2,max, L3,1,max and L3,2,max. of Scell activation for a SMTC period of 20 ms.  |
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### CRs/TPs comments collection

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| **CR/TP number** | **Comments collection** |
| 6.1.1.6.3.1 | General |
| [**R4-2113464**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113464.zip)Mirror: R4-2113465Ericsson | Draft CR: Correction of RMC for NR-U test cases |
| Huawei: This CR may need revision, as whether test2 is needed is under discussion in [206] |
| Company B |
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| **[R4-2114103](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114103.zip)**Mirror: R4-2114104Huawei, Hisilicon | CR on CORESET RMC for NR-U R16 |
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| **[R4-2113228](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113228.zip)**Mirror: R4-2113229Nokia, Nokia Shanghai Bell | Correction of CCA model for TCs with DRX |
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| 6.1.1.6.3.2 | RRC IDLE cell re-selection |
| [**R4-2114078**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114078.zip)Mirror: R4-2114080Ericsson | Correction to cell reselection test |
| Nokia: The CR R4-2114105 covers a wider scope of changes. Therefore we suggest merging this CR to R4-2114105. |
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| **[R4-2114105](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114105.zip)**Mirror: R4-2114106Huawei, Hisilicon | CR on TC of cell reselection for NR-U R16 |
| Nokia:Wrong reference to CCA model clause needs to be fixed A.3.20 -> A.3.26. |
| Huawei: To Nokia, thanks for pointing it out. It could fixed in revised version. |
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| 6.1.1.6.3.3 | HO (delay and interruptions) |
| [**R4-2114077**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114077.zip)Mirror: R4-2114079Ericsson | Correction to NR-U handover test |
| Nokia:This Draft CR fixes the references of clause numbering that were changed on the Big CR implementation. Since it is covering the same clauses that R4-2114107 and R4-2113230, we propose that this CR is merged to R4-2114107. |
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| **[R4-2114107](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114107.zip)**Mirror: R4-2114108Huawei, Hisilicon | CR on TC of HO for NR-U R16 |
| Nokia: For the CCA model, we suggest configuring WCCA =T304 as in R4-2113230 and fixing the reference to the CCA model clause from A.3.20 to A.3.26. Since there is an overlap with the CRs R4-2114077 and R4-2113230, we propose:-R4-2114077 is merged to R4-2114107 which keeps the changes on clause A.11.2.1.-R4-2113230 keeps the changes on A.12.2, adding the coreset configuration and Noc parameters from R4-2114107 |
| Huawei: Fine with Nokia’s solution. |
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| **[R4-2113230](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113230.zip)**Mirror: R4-2113231Nokia, Nokia Shanghai Bell | Draft CR Correction of Handover TCs |
| NokiaTo be reviewed adding Noc parameters and CORESET configuration as in R4-2114077 |
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| 6.1.1.6.3.4 | RRC Re-establishment |
| [**R4-2114433**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114433.zip)Mirror: R4-2114434Ericsson | Correction to RRC re-establishment tests for NR-U in 38.133 |
| Nokia:Some of the configuration changes in A.11.2.2.1.1 and A.11.2.2.1.2 are also covered in R4-2113232. Since R4-2113232 and it also covers other changes like the fix of re-establishment delay, I would suggest to merge the changes of NOC and IO from this CR into R4-2113232 for clause A.11.2.2.1.1 and A.11.2.2.1.2 . CCA model should be referring to clause A.3.26 instead of A.3.20. PRACH configuration should be *FR1 PRACH configuration 1 under CCA*This CR should also reflect the agreement from the last meeting: Out of sync detection evaluation period in tests with CCAIn the test under the following parameter settings (non-DRX, no gaps are used and SSB periodicity is 20 ms), the out of sync detection evaluation period = 480 ms when the serving cell is inactivated (RLM-RS SSB Es/Iot <-7 dB). Our suggestion is to* Keep R4-2113232, introducing the Noc and Io changes from R4-2114109 for clauses A.11.2.2.1.1 and A.11.2.2.1.2

Merge R4-2114109 and R4-2114433 keeping clauses A.11.2.2.1.3 and A.11.2.2.1.4 |
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| **[R4-2114109](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114109.zip)**Mirror: R4-2114110Huawei, Hisilicon | CR on TC of RRC Re-establishment for NR-U R16 |
| NokiaSome of the configuration changes in A.11.2.2.1.1 and A.11.2.2.1.2 are also covered in R4-2113232. Since R4-2113232 and it also covers other changes like the fix of re-establishment delay, I would suggest to merge the changes of NOC and IO from this CR into R4-2113232 for clause A.11.2.2.1.1 and A.11.2.2.1.2 . CCA model on table A.11.2.2.1.4.1-2 have the wrong clause number. It should be A.3.26 instead of A.3.20. PRACH configuration should be *FR1 PRACH configuration 1 under CCA* Our suggestion is to* Keep R4-2113232, introducing the Noc and Io changes from R4-2114109 for clauses A.11.2.2.1.1 and A.11.2.2.1.2
* Merge R4-2114109 and R4-2114433 keeping clauses A.11.2.2.1.3 and A.11.2.2.1.4
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| Huawei: Fine with Nokia’s solution. Suggest to work on 4109 for A.11.2.2.1.3 and A.11.2.2.1.4 |
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| **[R4-2113232](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113232.zip)**Mirror: R4-2113233Nokia, Nokia Shanghai Bell | Draft CR RRC Re-establishment with CCA |
| Nokia:Since there is an overlap on the content of CR, our suggestion is to* Keep R4-2113232, introducing the Noc and Io changes from R4-2114109 for clauses A.11.2.2.1.1 and A.11.2.2.1.2
* Merge R4-2114109 and R4-2114433 keeping clauses A.11.2.2.1.3 and A.11.2.2.1.4
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| 6.1.1.6.3.5 | RRC Connection Release with Redirection |
| [**R4-2114435**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114435.zip)Mirror: R4-2114436Ericsson | Correction to RRC re-direction tests for NR-U in 38.133 |
| Nokia:Prefer to use LCCA and WCCA configuration as proposed in the discussion of R4-2113234PRACH configuration should be defined as configuration 1 for cell 1 and configuration 1 under CCA for cell 2 in A.11.2.2.3.2. There are some other correction on the redirection delay that we included in our Draft CR R4-2113235 that we believe should be considered.  As the original work split was * NR-U->NR-U Huawei
* NR ->NR-U Ericsson

so we propose one of the following options:* Option 1:

Merge R4-2113235 to R4-2114435 with clause A.11.2.2.3.2Merge R4-2113235 to R4-2114111 with clause A.11.2.2.3.1* Option 2: to merge R4-2114435 and R4-2114111 to R4-2113235.

 We have a slight preference to option 2, since there are less updates to be done in R4-2114435 |
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| **[R4-2114111](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114111.zip)**Mirror: R4-2114112Huawei, Hisilicon | CR on TC of RRC Release with Redirection for NR-U R16 |
| Nokia:There are still some errors to be corrected in this CR that were covered by R4-2113235 and R4-211443. That include LCCA/WCCA configuration, correction on redirection delay, and other configurations.  As the original work split was * NR-U->NR-U Huawei
* NR ->NR-U Ericsson

we propose one of the following options:* Option 1:

Merge R4-2113235 to R4-2114435 with clause A.11.2.2.3.2Merge R4-2113235 to R4-2114111 with clause A.11.2.2.3.1* Option 2: to merge R4-2114435 and R4-2114111 to R4-2113235.

 We have a slight preference to option 2, since there are less updated to be done in R4-2114435 |
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| **[R4-2113235](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113235.zip)**Mirror: R4-2113236Nokia, Nokia Shanghai Bell | Correction on release with redirection TCs for unlicensed operation |
| Nokia: This Draft CR has some overlap with R4-2113235 and R4-2114111. See our comments on R4-2113235 and R4-2114111. |
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| 6.1.1.6.3.6 | Random access |
| [**R4-2113468**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113468.zip)Mirror: R4-2113469Ericsson | Draft CR: Correction of random access procedure test cases for NR-U |
| Nokia:CCA model is defined in clause A.3.26 not A.3.20. |
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| **[R4-2114113](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114113.zip)**Mirror: R4-2114114Huawei, Hisilicon | CR on TC of RA for NR-U R16 |
| Nokia: The changes on this CR are not in line with the agreement from meeting 98-bis

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| lbt-FailureRecoveryConfig in random access test casesNot to configure lbt-FailureRecoveryConfig for the random access procedure test cases.  |

From the discussion that we had in this meeting, the LBT failure is avoided by the configuration of LCCA and WCCA |
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| 6.1.1.6.3.7 | Timing (transmit timing and TA) |
| [**R4-2114437**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114437.zip)Mirror: R4-2114438Ericsson | Correction to UE timing tests for NR in 38.133 |
| Nokia:CCA model is defined in clause A.3.26 not A.3.20. R4-2114437 and R4-2114115 cover the same changes. So we suggest to merge both Draft CRs. |
| Huawei: Suggest to work on 4115 since less updating is needed.  |
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| **[R4-2114115](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114115.zip)**Mirror: R4-2114116Huawei, Hisilicon | CR on TC of timing requirements for NR-U R16 |
| Nokia: On the cover page, I don’t think you need to mention affected test specification from RAN5, since this is covered by other work item.CCA model is defined in clause A.3.26 not A.3.20. R4-2114437 and R4-2114115 cover the same changes. So we suggest to merge both Draft CRs.Update Reply to Huawei (18/08):We don’t think this is a big issue, especially since this is a Draft CR, but there was a recommendation on RP-210826 as follow:"Test specifications" under "Other specs affected" on the CR cover: Testing under TSG RAN is either done in RAN4 or in RAN5. Since RAN5 has separate WIs for testing that usually are also just started after RAN4 work is completed, it would not make much sense to reference RAN5 specs on a RAN4 CR as it is clear that the RAN5 CR will just follow later (here it is more appropriate to review the corresponding RAN5 WI when it becomes available). |
| Huawei: Can Nokia clarify more why the affected TS is no needed? |
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| 6.1.1.6.3.8 | BWP switching delay and interruptions |
| [**R4-2114439**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114439.zip)Mirror: R4-2114440Ericsson | Correction to BWP switching tests for NR-U in 38.133 |
| NokiaOn the notes: Note 5: Parameters PCCA\_DL, PCCA\_DL\_1, PCCA\_DL\_2 and PCCA\_UL are defined in clause A.3.20.2.Note 6: For UE supporting both semi-static and dynamic cannel access, the UE must be tested under both dynamic and semi-static channel occupancy configurations.Replace cannel by channelFix clause number for CCA model, A.3.26 instead of A.3.20.Update 18-08: Agree with Huawei’s suggestion.  |
| Huawei: Overlapped with 4117. Suggest to merge the change on A.10.3.5 in 4440 and keep the change to A.11 in 4117. |
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| **[R4-2114117](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114117.zip)**Mirror: R4-2114118Huawei, Hisilicon | CR on TC of BWP switch requirements for NR-U R16 |
| NokiaReferences to the clause with CCA model are outdated. CCA model is defined in clause A.3.26 not A.3.20. |
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| 6.1.1.6.3.9 | PSCell addition/release (delay and interruption) |
| **[R4-2114119](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114119.zip)**Mirror: R4-2114120Huawei, Hisilicon | CR on TC of PSCell addition and release for NR-U R16 |
| Nokia:Can the reason for changing A4 to B1 be clarified?Please use PRACH configuration 1 with CCAThe CCA model is in clause A.3.26, not A.3.20.  |
| Huawei: Response to Nokia’s question. Known NR-U PSCell addition is tested in EN-DC, TE shall configure B1 event (inter-RAT) to during T2 instead of A4 (for inter-frequency) |
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| 6.1.1.6.3.10 | SCell activation/deactivation (delay and interruption) |
| [**R4-2114172**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114172.zip)Mirror: R4-2114173Ericsson | DraftCR (R16) Correction of test cases for SCell (de)activation |
| Nokia:We think L4 should be removed from the description of the test requirements in A.13.2.2 and that also LCCA and WCCA should be configured as in the Draft CR R4-2113238. The CCA model is in clause A.3.26, not A.3.20. Since R4-2114172 introduces more changes, our suggestion is to merge the changes from R4-2113238 to R4-2114172. |
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| **[R4-2114121](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114121.zip)**Mirror: R4-2114122Huawei, Hisilicon | CR on TC of SCell activation for NR-U R16 |
| Nokia:This CR covers clauses that are also covered by R4-2113238 and R4-2114172Since R4-2114172 introduces more changes our preference would be to merge the changes from R4-2113238 to R4-2114172.Are there changes from this CR R4-2114121 that should also be merged to R4-2114172? |
| Huawei: fine with Nokia’s suggestion |
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| **[R4-2113238](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2113238.zip)**Mirror: R4-2113239Nokia, Nokia Shanghai Bell | TC SCell activation/deactivation for unlicensed bands |
| Nokia: Overlapping clauses with R4-2114172. Since R4-2114172 introduces more changes, our suggestion is to merge the changes from R4-2113238 to R4-2114172. |
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| 6.1.1.6.3.11 | Other interruptions |
| [**R4-2114170**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_100-e/Docs/R4-2114170.zip)Mirror: R4-2114171Ericsson | DraftCR (R16) Correction of test cases for interruptions |
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## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary**  |
| **Sub-topic#1** | *Tentative agreements:**Candidate options:**Recommendations for 2nd round:* |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provided recommendation on CRs/TPs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation**  |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

*Moderator can provide summary of 2nd round here. Note that recommended decisions on tdocs should be provided in the section titled ”Recommendations for Tdocs”.*

# Recommendations for Tdocs

## 1st round

**New tdocs**

|  |  |  |
| --- | --- | --- |
| **Title** | **Source** | **Comments** |
| WF on … | YYY |  |
| LS on … | ZZZ | To: RAN\_X; Cc: RAN\_Y |
|  |  |  |

**Existing tdocs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation**  | **Comments** |
| R4-210xxxx | CR on … | XXX | Agreeable, Revised, Merged, Postponed, Not Pursued |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Notes:

1. Please include the summary of recommendations for all tdocs across all sub-topics incl. existing and new tdocs.
2. For the Recommendation column please include one of the following:
	1. CRs/TPs: Agreeable, Revised, Merged, Postponed, Not Pursued
	2. Other documents: Agreeable, Revised, Noted
3. For new LS documents, please include information on To/Cc WGs in the comments column
4. Do not include hyper-links in the documents

## 2nd round

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation**  | **Comments** |
| R4-210xxxx | CR on … | XXX | Agreeable, Revised, Merged, Postponed, Not Pursued |  |
| R4-210xxxx | WF on … | YYY | Agreeable, Revised, Noted |  |
| R4-210xxxx | LS on … | ZZZ | Agreeable, Revised, Noted |  |
|  |  |  |  |  |

Notes:

1. Please include the summary of recommendations for all tdocs across all sub-topics.
2. For the Recommendation column please include one of the following:
	1. CRs/TPs: Agreeable, Revised, Merged, Postponed, Not Pursued
	2. Other documents: Agreeable, Revised, Noted
3. Do not include hyper-links in the documents

# Annex

Contact information

|  |  |  |
| --- | --- | --- |
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Note:

1. Please add your contact information in above table once you make comments on this email thread.
2. If multiple delegates from the same company make comments on single email thread, please add you name as suffix after company name when make comments i.e. Company A (XX, XX)