**3GPP TSG-RAN WG2 Meeting #118-eR2-22xxxxx**

**Online, 9th – 20th May 2022**

**Agenda item:** 6.3.1

**Source:** vivo

 **[AT118-e][230][MUSIM] NR RRC corrections for MUSIM (vivo)**

**Document for:** Discussion and Agreement

# 1 Introduction

This is to report the following email discussion:

* [AT118-e][230][MUSIM] NR RRC corrections for MUSIM (vivo)

 Scope: Discuss NR RRC corrections for MUSIM and include corrections based on online decisions.

 Intended outcome: Agreeable CR in [R2-2206169](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2206169.zip).

 Deadline: Deadline 5

* **Comment deadline:** Tuesday W2, 0400 UTC (for collecting views)
* **Rapporteur proposals:** Wednesday W2, 0800 UTC (proposed resolution of issues)
* **Document deadline:** Wednesday W2, 1600 UTC (report or agreed CRs)

This email discussion focuses on the following proposals:

[R2-2205312](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205312.zip) [H083] Corrections to NR RRC for MUSIM Huawei, HiSilicon draftCR Rel-17 38.331 17.0.0 LTE\_NR\_MUSIM-Core

[R2-2205763](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205763.zip) [S676] Further discussion on handling of musim-GapConfig in RRC\_INACTIVE Samsung Electronics Co., Ltd discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2205765](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205765.zip) [S676] Correction on handling of musim-GapConfig in RRC\_INACTIVE\_Opt 1 Samsung Electronics Co., Ltd CR Rel-17 38.331 17.0.0 3115 - F LTE\_NR\_MUSIM-Core

[R2-2205767](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205767.zip) [S676] Correction on handling of musim-GapConfig in RRC\_INACTIVE\_Opt 2 Samsung Electronics Co., Ltd CR Rel-17 38.331 17.0.0 3116 - F LTE\_NR\_MUSIM-Core

[R2-2205772](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205772.zip) [S677] Correction on the IE MUSIM-GapConfig in ASN.1 Samsung Electronics Co., Ltd discussion Rel-17 38.331 LTE\_NR\_MUSIM-Core

[R2-2205501](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205501.zip) [L020] Correction for AS-based leaving when RAN paging in MUSIM LG Electronics Finland discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2205729](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205729.zip) Further clarification on the waiting timer for leaving connected state [Z294][O802] ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_MUSIM-Core

[R2-2205757](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205757.zip) Behaviour of wait timer Ericsson discussion

# 2 Contact Information

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 | Contact: Name (E-mail) |
| vivo | Wenjuan Pu (wenjuan.pu@vivo.com) |
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# 3 Discussion

* [H083] [R2-2205312](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205312.zip)

RIL “NW either accepts or rejects aperiodic gap and there is only one aperiodic gap. Hence "MUSIM-GapInfo-r17" is not needed.”, so R2-2205312 proposes:

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| ***MUSIM-GapConfig***The IE *MUSIM-GapConfig* specifies the MUSIM gap configuration and controls setup/release of MUSIM gaps.*MUSIM-GapConfig* information element-- TAG-MUSIM-GAPCONFIG-START MUSIM-GapConfig-r17 ::= SEQUENCE { musim-GapToReleaseList-r17 SEQUENCE (SIZE (1..2)) OF MUSIM-GapID-r17 OPTIONAL, musim-GapToAddModList-r17 SEQUENCE (SIZE (1..2)) OF MUSIM-GapInfo-r17 OPTIONAL,  musim-AperiodicGap-r17 ENUMERATED {setup} OPTIONAL, -- Need N ...}MUSIM-GapInfo-r17 ::= SEQUENCE { musim-GapID-r17 MUSIM-GapID-r17 OPTIONAL, -- Cond periodic musim-Starting-SFN-AndSubframe-r17 MUSIM-Starting-SFN-AndSubframe-r17 OPTIONAL, -- Cond aperiodic musim-GapLength-r17 ENUMERATED {ms3, ms4, ms6, ms10, ms20} OPTIONAL, musim-GapRepetitionAndOffset-r17 CHOICE { ms20-r17 INTEGER (0..19), ms40-r17 INTEGER (0..39), ms80-r17 INTEGER (0..79), ms160-r17 INTEGER (0..159), ms320-r17 INTEGER (0..319), ms640-r17 INTEGER (0..639), ms1280-r17 INTEGER (0..1279), ms2560-r17 INTEGER (0..2559), ms5120-r17 INTEGER (0..5119), ...} OPTIONAL -- Cond periodic}MUSIM-Starting-SFN-AndSubframe-r17 ::= SEQUENCE { starting-SFN-r17 INTEGER (0..1023), startingSubframe-r17 INTEGER (0..9)} -- TAG-MUSIM-GAPCONFIG-STOP-- ASN1STOP |

RAN2 have agreement that network should provide UE with the request MUSIM gap, but we also agreed in R2#116bis:

* **4: In the gap assistance information, UE provides gap repetition period and offset for periodic gaps, and (optionally) provides start SFN and subframe for the aperiodic gap.**

Based on above R2#116bis agreement, UE optionally provides start SFN and subframe for the aperiodic gap. However, “musim-Starting-SFN-AndSubframe-r17” field is mandatory present in case of MUSIM aperiodic gap configuration. That means network have to provide UE with this musim-Starting-SFN-AndSubframe-r17. Current CR ASN.1 version is fully aligned with above agreement.

But, if we use ENUMERATED {setup} it is not clear how it would work in case UE does not provide start SFN and subframe for the aperiodic gap in UAI. So, Rapporteur thinks if we agree to above change by R2-2205312, something may need to be further considered. This issue is also raised by R2-2205322. R2-2205322 proposed that for the aperiodic Gap configuration, the musim-Starting-SFN-AndSubframe and musim-GapLength shall be mandatory present, but not configure the aperiodic gap implicitly by indicating accept the aperiodic gap request or not. This is currently aligned with CR.

**Q1: Do companies agree with the proposed change by R2-2205312?**

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| Company | Agree as is;Agree with changes;Disagree | Detailed Comments |
| vivo | Disagree | The proposed change does not work if UE does not provide start SFN and subframe for the aperiodic gap. |
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**Conclusion:**

* [S676] [R2-2205763](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205763.zip)

RIL “UE should not restore musim-GapConfig from the UE Inactive AS context, if stored during RRC connection resume.”,and [R2-2205763](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205763.zip) made the following observations:

*Observation 1: There is no agreement on how to handle musim-GapConfig from the UE Inactive AS context, if stored during RRC connection resume, which results in no procedure text update in TS 38.331 v17.0.0.*

*Observation 2: According to the procedure text in TS 38.331 v17.0.0, the UE restores the musim-GapConfig from the stored UE Inactive AS context, if stored while performing the actions as specified in 5.3.13.3.*

And further proposes two options to address the above comments. Option 1 is performed upon initiation of the RRC resume procedure, while option 2 is performed when setting the contents of RRCResumeRequest or RRCResumeRequest1 message.

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| **Option 1 in** [**R2-2205765**](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205765.zip)**:**============SKIP============1> stop timer T346f, if running;1> stop timer T346i, if running;1> release *referenceTimePreferenceReporting* from the UE Inactive AS context, if stored;1> release *sl-AssistanceConfigNR* from the UE Inactive AS context, if stored;1> release *musim-GapAssistanceConfig* from the UE Inactive AS context, if stored and stop timer T346h, if running;1> release *musim-GapConfig* from the UE Inactive AS context, if stored;1> release *musim-LeaveAssistanceConfig* from the UE Inactive AS context, if stored;1> if the UE is connected with a L2 U2N Relay UE via PC5-RRC connection (i.e. the UE is a L2 U2N Remote UE):2> apply the specified configuration of SL-RLC0 used for the delivery of RRC message over SRB0 as specified in 9.1.1.4;============SKIP============ |

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| **Option 2 in** [**R2-2205767**](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205767.zip)**:**============SKIP============2> select *RRCResumeRequest1* as the message to use;2> set the *resumeIdentity* to the stored *fullI-RNTI* value;1> else:2> select *RRCResumeRequest* as the message to use;2> set the *resumeIdentity* to the stored *shortI-RNTI* value;1> restore the RRC configuration, RoHC state, the stored QoS flow to DRB mapping rules and the KgNB and KRRCint keys from the stored UE Inactive AS context except for the following:- masterCellGroup;- mrdc-SecondaryCellGroup, if stored; - pdcp-Config; and - musim-GapConfig, if stored;1> set the *resumeMAC-I* to the 16 least significant bits of the MAC-I calculated:2> over the ASN.1 encoded as per clause 8 (i.e., a multiple of 8 bits) *VarResumeMAC-Input*;2> with the KRRCint key in the UE Inactive AS Context and the previously configured integrity protection algorithm; and2> with all input bits for COUNT, BEARER and DIRECTION set to binary ones;============SKIP============ |

**Q2: Do you agree with the observations made by** [**R2-2205763**](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205763.zip)**?**

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| Company | Agree;Disagree | Detailed Comments |
| vivo | Agree | Regarding “Observation 1: There is no agreement on how to handle musim-GapConfig from the UE Inactive AS context, if stored during RRC connection resume, which results in no procedure text update in TS 38.331 v17.0.0.”, the potential problem may be that, 1. musim-GapConfig cannot be present in RRCResume message in TS 38.331 v17.0.0, then the musim-GapConfig can only be updated in next reconfiguration.
2. UE releases *musim-GapAssistanceConfig* from the UE Inactive AS context when initiating RRC resume procedure, then UE cannot update its MUSIM gap preference.
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**Q3: If the ANS to Q2 is Yes, which alternative do you prefer?**

* **Change option 1**
* **Change option 2**
* **Change option 3**

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| Company | Option | Detailed Comments |
| vivo | Option 3  | musim-GapConfig cannot be present in RRCResume message in TS 38.331 v17.0.0, the musim-GapConfig can only be updated in next reconfiguration.**Option 3**: to support *musim-GapConfig* and *musim-GapAssistanceConfig* in RRCResume message. Then, the handling of *musim-GapConfig* in RRC Resume procedure could be same as measGapConfig. In this option3, it’s better to restore *musim-GapAssistanceConfig and musim-GapConfig.* i.e. UE does not release these configurations from the UE Inactive AS context when initiating RRC resume procedure.If majority prefer not to restore musim-GapConfig from the UE Inactive AS context, we think option-1 is clearer than option-2. |
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**Conclusion:**

* [S677] [R2-2205772](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205772.zip)

RIL “There seems no need to define duplicated/same fields in the IE MUSIM-GapPrefInfo-r17 and in the IE MUSIM-GapInfo-r17, unless network is allowed to change any parameters different from requested MUSIM gap pattern(s).”

Based on At RAN2#117-e meeting, the following agreement was made:

* 1: Network should always provide at least one of the requested gap pattern or no gaps. Network providing an alternative gap pattern instead of the one requested by the UE is not supported in this release.

[R2-2205772](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205772.zip) observed that:” **Network is NOT allowed to change any parameters different from requested MUSIM gap pattern(s) i.e. network only decides whether to configure each MUSIM gap pattern requested by the UE.** ”

So [**R2-2205772**](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205772.zip) proposes to re-define the IE *MUSIM-GapInfo-r17* as follows:

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| MUSIM-GapInfo-r17 ::= SEQUENCE { musim-GapID-r17 MUSIM-GapId-r17 OPTIONAL, -- Cond periodic musim-Gap-r17 MUSIM-Gap-PrefInfo-r17 } |

Alternatively, contribution **R2-2205759** also proposes a similar definition of the IE MUSIM-GapInfo-r17 which will avoid duplicating IE MUSIM-GapInfo-r17 definition which is already captured in the current version of the CR, as follows:

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|  ============SKIP============ ***MUSIM-GapConfig* information element**-- ASN1START-- TAG-MUSIM-GAPCONFIG-START MUSIM-GapConfig-r17 ::= SEQUENCE { musim-GapToReleaseList-r17 SEQUENCE (SIZE (1..2)) OF MUSIM-GapID-r17 OPTIONAL, musim-GapToAddModList-r17 SEQUENCE (SIZE (1..2)) OF MUSIM-Gap-r17 OPTIONAL,  musim-AperiodicGap-r17 MUSIM-Gap-r17 OPTIONAL, -- Need N ...} MUSIM-Gap-r17 ::= SEQUENCE { musim-GapID-r17 MUSIM-GapID-r17 OPTIONAL, musim-GapInfo-r17 MUSIM-GapInfo-r17}  -- TAG-MUSIM-GAPCONFIG-STOP-- ASN1STOP ============SKIP============ |

**Q4: To avoid duplicate definition of the IE *MUSIM-GapInfo-r17* , on top of what is already captured in the CR based on R2-2205759, do you think any additional clarification is needed?**

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| Company | Yes(please clarify)/No | Detailed Comments |
| vivo | Yes | One comment on the proposed COND presence “*periodic*” in the introduced common IE *MUSIM-GapInfo-r17*:For “*periodic*”, the description should be “This field is mandatory present in case of requesting/configuring periodic MUSIM ~~periodic~~ gap ~~configuration~~. Otherwise, it is absent.” |
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* [L020] [R2-2205501](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205501.zip)

RIL “When UE in RRC INACTIVE receives RAN paging, the UE should first check whether the UE leaves the RRC connection of the other SIM for R17 MUSIM operation instead of just initiating the RRC resume procedure”

Based on following RAN2 agreements:

* 1: RAN2 will not work in Rel-17 for the case that Dual-RX/Single-TX UE or Single-RX/Single-TX UE stays in RRC\_CONNECTED mode in NW A while performing reception and transmission in NW B (in RRC\_ CONNECTED or during RRC setup/resume period).
* For NR/5GS scenario, both NAS-based and RRC-based solution are supported for UE network switching with leaving connected state.
* There is no need to define the interaction between RRC-level connection release procedure and NAS-level connection release procedure.
* When both NAS-level Connection Release and RRC-level connection release are supported by the UE and are configured by the NW, it is up to the UE implementation to determine which one to use.

[R2-2205501](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205501.zip) observe that when receiving a RAN paging message, there are some cases that the UE immediately initiates the RRC Resume procedure:

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|  ============SKIP============ **5.3.2.3 Reception of the *Paging* *message* by the UE**Upon receiving the *Paging* message, the UE shall: ============SKIP============ 1> if in RRC\_INACTIVE, for each of the *PagingRecord*, if any, included in the *Paging* message:2> if the *ue-Identity* included in the *PagingRecord* matches the UE's stored *fullI-RNTI*:3> if the UE is configured by upper layers with Access Identity 1:4> initiate the RRC connection resumption procedure according to 5.3.13 with *resumeCause* set to *mps-PriorityAccess*;3> else if the UE is configured by upper layers with Access Identity 2:4> initiate the RRC connection resumption procedure according to 5.3.13 with *resumeCause* set to *mcs-PriorityAccess*;3> else if the UE is configured by upper layers with one or more Access Identities equal to 11-15:4> initiate the RRC connection resumption procedure according to 5.3.13 with *resumeCause* set to *highPriorityAccess*;3> else:4> initiate the RRC connection resumption procedure according to 5.3.13 with *resumeCause* set to *mt-Access*;============SKIP============  |

Thus [R2-2205501](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205501.zip) proposes that RAN2 discuss whether the spec change for TS 38.331 is needed to capture the UE behaviour of the decision to leave RRC\_CONNECTED for MUSIM operation upon reception of RAN paging.

**Q5: Do you agree to change spec to capture the UE behaviour of the decision to leave RRC\_CONNECTED for MUSIM operation upon reception of RAN paging?**

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| Company | Agree;Disagree | Detailed Comments |
| vivo | Disagree | The decision to leave RRC\_CONNECTED of the other SIM for R17 MUSIM operation instead of just initiating the RRC resume procedure should be up to UE implementation.As at present, TS38.331 does not need to specify the UE behaviour of the other SIM on other networks. |
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**Conclusion:**

[R2-2205501](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205501.zip) proposes a potential spec change as follows:

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| ============SKIP============ 1> if in RRC\_INACTIVE, for each of the *PagingRecord*, if any, included in the *Paging* message:2> if the *ue-Identity* included in the *PagingRecord* matches the UE's stored *fullI-RNTI*:3> if the UE is configured by upper layers with Access Identity 1:4> initiate the RRC connection resumption procedure according to 5.3.13 with *resumeCause* set to *mps-PriorityAccess*;3> else if the UE is configured by upper layers with Access Identity 2:4> initiate the RRC connection resumption procedure according to 5.3.13 with *resumeCause* set to *mcs-PriorityAccess*;3> else if the UE is configured by upper layers with one or more Access Identities equal to 11-15:4> initiate the RRC connection resumption procedure according to 5.3.13 with *resumeCause* set to *highPriorityAccess*;3> else:4> initiate the RRC connection resumption procedure according to 5.3.13 with *resumeCause* set to *mt-Access*;NOTE: The UE should initiate the RRC connection resumption procedure after leaving RRC\_CONNECTED state of the other network if the UE capable of providing MUSIM assistance information determines to leave RRC\_CONNECTED state for MUSIM operation.2> else if the *ue-Identity* included in the *PagingRecord* matches the UE identity allocated by upper layers:3> if upper layers indicate the support of paging cause:4> forward the *ue-Identity* to upper layers and *accessType* (if present) to the upper layers;3> perform the actions upon going to RRC\_IDLE as specified in 5.3.11 with release cause 'other';1> if the UE is acting as a L2 U2N Relay UE, for each of the *PagingRecord*, if any, included in the *Paging* message:2> if the *ue-Identity* included in the *PagingRecord* in the *Paging* message matches the UE identity in *sl-PagingIdentity-RemoteUE* included in *sl-PagingInfo-RemoteUE*:3> inititate the Uu Message transfer in sidelink as specified in 5.8.9.9;1> for each *TMGI* included in *pagingGroupList*, if any, included in the *Paging* message:2> if the UE has joined an MBS session indicated by the *TMGI* included in the *pagingGroupList*:3> forward the *TMGI* to the upper layers;1> if in RRC\_INACTIVE and the UE has joined one or more MBS session(s) indicated by the *TMGI* included in the *pagingGroupList*;and============SKIP============  |

**Q6: If the ANS to Q5 is Yes, to you agree the proposed change as above in** [**R2-2205501**](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205501.zip)**?**

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| Company | Agree as is;Agree with changes;Disagree | Detailed Comments |
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**Conclusion:**

* [Z294][O802][R2-2205729](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205729.zip)

**[RIL]**: O802 **[Description]**: T3xx is stopped upon receiving RRCRelease, not upon entering idle state.

**[Proposed Change]:** Upon receiving *RRCRelease*, or upon receiving *musim-LeaveAssistanceConfig* set to *release*.

**[RIL]**: Z294 **[Description]**: The corresponding timer shall also be stopped when the *musim-LeaveAssistanceConfig* was released.

**[Proposed Change]:** 2>release *musim-LeaveAssistanceConfig*, if configured and stop timer T3xx, if running;

As it has been agreed that when the NW release the musim-LeaveAssistanceConfig, UE stops the timer (even if running), so [R2-2205729](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205729.zip) think when the UE release the musim-LeaveAssistanceConfig, the corresponding timer shall also be stopped.

**Q7: Do you agree that when the UE release the musim-LeaveAssistanceConfig, the corresponding timer shall also be stopped as proposed in** [**R2-2205729**](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205729.zip)**?**

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| Company | Agree;Disagree | Detailed Comments |
| vivo | Disagree | In our understanding, the UE releases the musim-LeaveAssistanceConfig when re-establishment is triggered. According to the below agreements, this case can be left up to UE implementation.In RAN2#117e agreement: * RAN2 will not specify any new behaviour if the wait timer for switching notification to leave RRC connected state is running, and UE detects RLF, triggers re-establishment, receives HO command or triggers CHO. No specification changes are needed.
* 9: RAN2 does not specify additional UE behavior on receiving reconfiguration of wait timer while wait timer is running. UE starts/stops/restarts the timer as per legacy procedures for UAI transmission, which means that at least in some cases this is left up to UE implementation.

So, the below change in the latest NR RRC CR should be reverted:2> release *musim-LeaveAssistanceConfig*, if configured and stop timer T346g, if running; |
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**Conclusion:**

**Q8: if the ANS to Q7 is NO, do you agree that the UE shall stop the timer when the UE enter into the IDLE state for some abnormal cases e.g. the T311 expiry as proposed in** [**R2-2205729**](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205729.zip)**?**

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| Company | Agree;Disagree | Detailed Comments |
| vivo | Agree, but | Agree that UE shall stop the timer when the UE enter into the IDLE state. The actions upon going to RRC\_IDLE as specified in 5.3.11 has specified that “1> stop all timers that are running except T302, T320, T325, T330, T331 and T400;”Therefore, there should be no further change regarding this. |
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* [R2-2205757](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205757.zip)

The field description of *musim-LeaveWithoutResponseTimer* is captured in [1] as follows:

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| ============SKIP============ ***musim-LeaveWithoutResponseTimer***Indicates the timer for to leave RRC\_CONNECTED without network response. When T3xx expires, UE autonomously leaves RRC\_CONNECTED state and enters RRC\_IDLE for MUSIM purpose.============SKIP============  |

In [2], a simplification to this field was proposed:

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| ============SKIP============ ***musim-LeaveWithoutResponseTimer***Indicates the timer for the UE to enter RRC\_IDLE for MUSIM purpose as defined in clause 5.3.8.x. ============SKIP============  |

However, [R2-2205757](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205757.zip) express concern that the proper behavior for the UE upon the wait timer expiration is captured in clause 5.3.8.X:

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| ============SKIP============ **5.3.8.X T3xx expiry**The UE shall:1> if T3xx expires:2> perform the actions upon going to RRC\_IDLE as specified in 5.3.11, with release cause 'other'.============SKIP============ |

[R2-2205757](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205757.zip) further observe that The field description of musim-LeaveWithoutResponseTimer is not consistent with the related procedural section. Thus, proposes that the field description of musim-LeaveWithoutResponseTimer should simplified to refer to clause 5.3.8.X.

**Q9: Do you agree with the simplified field description of *musim-LeaveWithoutResponseTimer* to refer to clause 5.3.8.X. as in** [**R2-2205757**](file:///C%3A%5CUsers%5Cterhentt%5CDocuments%5CTdocs%5CRAN2%5CRAN2_118-e%5CR2-2205757.zip)**?**

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| --- | --- | --- |
| Company | Agree as is;Agree with changes;Disagree | Detailed Comments |
| vivo | Agree with changes |  |
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# 4 Conclusion

**TBD**

# 5 References

1. R2-2204207, Introduction of NR RRC support for MUSIM, Vivo, RAN2#117-e
2. R2-2203440, Corrections to the NR RRC CR for MUSIM (38.331), Ericsson, RAN2#117e