3GPP TSG-RAN2#116bis-e Tdoc R2-22xxxx

Electronic meeting, 2022-01-17 - 2022-01-25

Agenda Item: 8.18 RACH indication and partitioning

Source: Ericsson

Title: Open issue list for 38.331 for RIP

Document for: Discussion, Decision

# 1 Introduction

This document relates to this offline discussion:

 **[POST116bis-e][515][RA Part] CP open issues (Ericsson)**

Scope:

- List of critical open issues to be resolved for WI completion

- Updated CR 38.331 for information and review

NOTE: NO contributions on these critical open issues are expected

Deadline:

- Open issues list Jan. 28th

- Company inputs Feb. 15th

This document captures a list of remaining open issues for TS 38.331 for RIP.

Note: The draft running CR attempts to capture agreements and a baseline framework for continued updates as a result of when RACH specific agreements are made in WI-specific discussions (e.g. RedCap, CE, Slicing etc).

The following delegates participated in the discussion:

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| --- | --- |
| Company | Contact Name, Email |
| Ericsson | Henrik.enbuske@ericsson.com |
| LGE | Hanseul.hong@lge.com |
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# 2 Open issue list to current running CR

Below is a list of open issues which does not fit under WI-specific Open Issues and are RIP specific.

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| **Slogan** | **Open issue description** | **Criticality** | **Remark** |
| **FFS if we remove the FeatureCombination from RACH common config and only keep 2)** | 1. If the indication in *RACH-ConfigCommon* allows to associate an additional whole RACH resource to a specific feature combination. This feature combination may then be considered the default one associated to all ROs of an additional RACH configuration,
 | Should be addressed early | Construct with or without will work but overall structure needs changes and thus this benefits from early decisionCurrent version of the running CR has this top level removed. Compare with previous version for changes |
| **WI Specific parameters** | * Signaling and parameters to be implemented from WI-specific discussions
 | Noncritical | Expected to be added as part of output from WI-specific agreements/progress.Currently only place holder is captured which needs WI input. |
| **Mapping between 2-step RA preambles and PUSCH resources for MsgA** | * It is unclear if the legacy mapping mechanism between 2-step preambles to MsgA PUSCH resources can be used as it is.
 | Should be addressed | RAN2 needs to make sure the mapping is clear. If it is clear, this issue can be closed, if unclear, RAN2 should make sure it is clear. |
| **L1 parameters**  | * Remaining, yet to be implemented after WI Specific discussions
 | TBD |  |
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| **FFS if CE indication is configured, then the RACH partition is only applicable to the RACH procedure where CE is required. Otherwise, if CE indication is not configured, then the RACH partition is applicable to the RACH procedure where CE is not required. (if CE is considered as part of feature combination)** | * COND construct or similar - to be confirmed
 | TBD |  |
| **Maximum number of additional RACH configurations** | * Define constraints in multiplicity (6.4)
 | Noncritical | maxAdditionalRACH-r17 INTEGER ::= TBD -- Maximum number of additional RACH configurations |
| **Multiple bit use for Slicing.**  | * To determine if one or multiple bits use for Slicing.
 | TBD | To be defined once we have the meaning and use of multiple bits from Slicing WISlicing WI should define how many slices there might be in total. Then the indication may just reflect this number. Up to Slicing WI to define the mapping between slice ID and PLMN or priority or other.  |
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Please provide input below:

|  |  |
| --- | --- |
| Company  | Comments / new open issues |
| LGE | The extensible format of the feature indication (i.e., FeatureComination IE) should be discussed as an open issue (e.g. whether to use extension marker ',,,‘ or introduce a spare field for future releases), considering that Rel-17 UEs would not be able to interprete the extension fields defined in future releases.  |
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# 3. Other General Open Issues

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| **Slogan** | **Open issue description** | **Criticality** | **Remark** |
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Please provide input below:

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| --- | --- |
| Company  | Comments / new open issues |
| LGE | In RAN2#116bis, it is agreed that the priority rules between the RACH partitions are configurable:3. If only a subset of features have a matching RACH partition, and the triggered RACH doesn’t fit with any of the configured RACH partitions then the UE behaviour will be specified. Details are TBD4. Priority rules are configurable (e.g. can be configured in SI)Regarding the configuration the details should be discussed as an open issue including:* Whether the priority rule is defined for each feature or each partition. Depending on the decision, the priority rule for following case would be different
	+ The RA is for F1+F2+F3. The network configures one partition is for F1 (with high priority) and another partition for F2+F3 (each of feature has low priority).
* On which level of ASN1 signaling the priority is configured.

After that, the configuration of priorty rule should be handled in RRC CR.  |
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# 4. Summary and Conclusion with Proposals

Based on the discussion above it is proposed:

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