**3GPP TSG RAN WG1 #101 R1-200xxxx**

**e-Meeting, May 25th– June 5th, 2020**

Agenda Item: 7.2.6.3

Source: Moderator (Apple)

Title: Feature Lead Summary on L1-SINR and SCell BFR email thread #2

Document for: Discussion/Decision

# Introduction

In this contribution, we provide a summary of issues on L1-SINR and SCell BFR email thread #2.

# Details for TPs

## Editorial Corrections

### Alignment between 38.213 and 38.331

Reason for changes

Align the RRC parameter for SCell BFR based on latest 38.331.

Summary of changes

Correct RRC parameter name for BFD and CBD related parameters.

Consequences if not approved

Misalignment between 38.331 and 38.213.

***TP 2.1.1 for 38.213***

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| 38.213 section 6A UE can be provided, for each BWP of a serving cell, a set  of periodic CSI-RS resource configuration indexes by *failureDetectionResources* and a set  of periodic CSI-RS resource configuration indexes and/or SS/PBCH block indexes by *candidateBeamRSList* or *candidateBeamRSSCellList-r16* for radio link quality measurements on the BWP of the serving cell. If the UE is not provided  by *failureDetectionResources* or *beamFailureDetectionResourceList* for a BWP of the serving cell, the UE determines the set  to include periodic CSI-RS resource configuration indexes with same values as the RS indexes in the RS sets indicated by *TCI-State* for respective CORESETs that the UE uses for monitoring PDCCH and, if there are two RS indexes in a TCI state, the set  includes RS indexes with QCL-TypeD configuration for the corresponding TCI states. The UE expects the set  to include up to two RS indexes. The UE expects single port RS in the set . The thresholds Qout,LR and Qin,LR correspond to the default value of *rlmInSyncOutOfSyncThreshold*, as described in [10, TS 38.133] for Qout, and to the value provided by *rsrp-ThresholdSSB* or *rsrp-ThresholdBFR-r16*, respectively. \*\*\* Unchanged text is omitted \*\*\*A UE can be provided, by *schedulingRequestID-BFR-SCell-r16*, a configuration for PUCCH transmission with a link recovery request (LRR) as described in Clause 9.2.4. The UE can transmit in a first PUSCH one MAC CE providing index(es) for at least corresponding SCell(s) with radio link quality worse than Qout,LR, indication(s) of presence of for corresponding SCell(s), and index(es) for a periodic CSI-RS configuration or for a SS/PBCH block provided by higher layers, as described in [11, TS 38.321], if any, for corresponding SCell(s). After 28 symbols from a last symbol of a PDCCH reception with a DCI format scheduling a PUSCH transmission with a same HARQ process number as for the transmission of the first PUSCH and having a toggled NDI field value, the UE |

**Companies view and comments**

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| Company | View |
| Ericsson | Support |

### clarification for new beam identification

Reason for changes

It has been agreed in RAN1#96b that new beam identification for SCell can be based on SSB and CSI-RS for beam management, with which CSI-RS for other purposes are not included. However the current spec allows for CSI-RS for other purposes, which is not aligned with the agreement.

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| **Agreement (RAN1#96b)**Downlink RS for new beam identification can be based on SSB and CSI-RS for BM |

Summary of changes

Capture the agreement that new beam identification for SCell can be based on SSB and CSI-RS for BM only.

Consequences if not approved

Missing agreement and extra UE complexity.

***TP 2.1.2 for 38.213***

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| < Start of text proposal on TS 38.213 v16.1.0 Section 6>< Unchanged parts are omitted >A UE can be provided, for each BWP of a serving cell, a set  of periodic CSI-RS resource configuration indexes by *failureDetectionResources* or *beamFailureDetectionResourceList* and a set  of periodic CSI-RS resource configuration indexes associated with *NZP-CSI-RS-ResourceSet* configured with higher layer parameter *repetition,* and/or SS/PBCH block indexes by *candidateBeamRSList* or  *candidateBeamRSListExt-r16* for radio link quality measurements on the BWP of the serving cell. If the UE is not provided  by *failureDetectionResources* or *beamFailureDetectionResourceList* for a BWP of the serving cell, the UE determines the set  to include periodic CSI-RS resource configuration indexes with same values as the RS indexes in the RS sets indicated by *TCI-State* for respective CORESETs that the UE uses for monitoring PDCCH and, if there are two RS indexes in a TCI state, the set  includes RS indexes with QCL-TypeD configuration for the corresponding TCI states. The UE expects the set  to include up to two RS indexes. The UE expects single port RS in the set .< Unchanged parts are omitted >< End of text proposal on TS 38.213 v16.1.0 Section 6> |

**Companies view and comments**

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| Company | View |
| Ericsson | Do not support.Leads to unnecessary configuration overhead – what would be the technical effect of assigning these CSI-RS resources to a set? The intent of the agreement was to reuse the R15 rules. We would be OK to write single-port CSI-RS.  |