**3GPP TSG RAN WG1 Meeting #104B-e                     R1-21xxxxx**

**eMeeting, April 12th – 20th, 2021**

**Agenda Item: 7.2.2**

**Source: Moderator (Charter Communications)**

**Title: Feature lead summary on for initial access procedures enhancements**

**Document for: Discussion and Decision**

# Introduction

Three correction to Rel-16 specifications has been submitted to RAN1#104B-e relating to initial access procedures for NR-U [1]-[3]. This first summary provides a list of the submitted corrections/clarifications and proposes to have one email discussion thread assigned to this agenda item.

# Corrections for SS/PBCH Block

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| Issue # | Description | Tdoc | Email discussion |
| 2-1 | Capture the following previously agreed conclusion explicitly in 38.214 Sec. 4.1:  • For semi-static channel access, SSBs that (partially) fall in the idle region of a fixed frame period should be considered as invalid. No PDSCH rate matching and no RLM/RRM measurement will be done for those candidate SSB positions. | R1-2103142 | Y if not covered in InitAccSignal. Related proposal for CR to 37.213 could not reach consensus in [104-e-NR-NRU-04] |

# Corrections for RACH

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| Issue # | Description | Tdoc | Email discussion |
| 3-1 | The term ‘operation’ may be interpreted as uplink operation or may also be interpreted as cell operation. One example is that for a PCell operating in unlicensed band, it may have a SUL link in licensed band, e.g. PCell downlink and normal uplink are in unlicensed band, SUL link is in licensed band. For this case, how to determine the term ‘operation’ when a UE selects SUL to transmit PRACH.  Discuss the following two options:  Option 1: ‘operation’ is determined by whether the PDCCH scheduling RAR is in unlicensed band or licensed band.  Option 2: ‘operation’ is determined by whether the PRACH is transmitted in unlicensed band or licensed band. | R1-2102556 | Y |
| 3-2 | PUSCH for Type 2 RA: The UEs shall not transmit any transmissions in idle period of FBE, regardless tdd-UL-DL-ConfigurationCommon is provided or not.  The description for PRACH validation in TS 38.213 section 8.1 is correctly captured for both cases. However, for the MsgA PUSCH validation, the restriction is only captured for the case that a UE is provided tdd-UL-DL-ConfigurationCommon. | R1-2103486 | Y |

# Corrections for RRM/RLM

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| Issue # | Description | Tdoc | Email discussion |
| N/A |  |  |  |

# Proposal for phase 1 of RAN1#104B-e

The FL proposes to discuss issues 2-1, 3-1, 3-2.

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| **Company** | **Views** |
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# References

1. R1-2103142, Invalid SSB in FBE for PDSCH rate matching, Qualcomm Inc
2. R1-2102556, Discussion on the remaining issues of initial access, OPPO
3. R1-2103486, Correction on MsgA PUSCH validation for FBE, ZTE, Sanechips