3GPP TSG RAN WG1 #105-e R1-210xxxx

e-Meeting, May 19 - 27, 2021

**Agenda item: 7.2.10**

**Source: Moderator (Nokia)**

**Title:** **[105-e-NR-MRDC-CA-01] Moderator summary**

**WI: LTE\_NR\_DC\_CA\_enh-Core**

**Document for: Discussion and Decision**

# 1 Introduction

The pre-RAN1#105 discussion summarized in [R1-2105684] resulted with one email thread for the meeting:

[105-e-NR-MRDC-CA-01] Email discussion/approval on the following until May-25 – Karri (Nokia)

* 1Tx: Discuss the changes proposed in [R1-2104324](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2104324.zip) to LTE 36.212/213
* PC1: Discuss the proposed changes in [R1-2104475](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2104475.zip) and if agreed, introduce them together with another change to 38.213, or include in the editor’s alignment CR
* UA: Discuss the proposed changes in [R1-2105375](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2105375.zip) to TS38.214
* XCC: Discuss the proposed change in [R1-2105918](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2105918.zip) and if agreed, could also be taken together with another change to 38.214 or include in the editor’s alignment CR

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| **TDoc** | **Title** | **Source** |
| [R1-2104324](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2104324.zip) | Remaing issues for Rel-16 single uplink Tx | ZTE |
| [R1-2104475](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2104475.zip) | Correction for power control of NR-DC | CATT |
| [R1-2105375](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2105375.zip) | Remaining issues on Rel-16 carrier aggregation | MediaTek Inc. |
| [R1-2105918](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_105-e/Docs/R1-2105918.zip%22%20%5Ct%20%22_parent) | Corrections on CCS with different subcarrier spacings for PDCCH and PDSCH in TS 38.214 | Huawei, HiSilicon |

# 2 Round 1 of discussion

## 2.1 1Tx: Proposed changes in R1-2104324 to LTE 36.212/213

Alignment of the RRC parameter names used for singe UL Tx operation in the TS36.212/213, in numerous places in TS36.212 and TS36.213, the following two changes are introduced:

* *subframeAssignment-r15* is replaced with *tdm-PatternConfig/tdm-PatternConfigNE-DC*
* *subframeAssignment-r16* is replaced with *tdm-PatternConfig2*

**Moderator proposal:** Agree to the proposed changes and introduce them in TS36.212 and TS36.213

Please provide your comments to the table below

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| **Company**  | **Comment** |
| Huawei, HiSilicon | The CR has impacts on Rel-15 spec as well because it changes the text associated with *subframeAssignment-r15*, e.g. the following changes for S5 of TS 36.213Therefore, the CR is supposed to start with a Rel-15 CR instead of Rel-16 one.Additionally, such correction of RRC names for tdm-PatternConfig (issue#21) has been concluded to be resolved as editorial/alignment CR in [105-e-Prep-NR-7.1CRs] this meeting.Therefore, suggest to discuss the CR as an editorial CR first under [105-e-NR-7.1CRs-14]. |
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## 2.2 PC1: Proposed changes in R1-2104475 to 38.213

Alignment of the order of SCG and MCG in the section 7.6.2 of TS38.213 as below:

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| If a UE is provided *semi-static-mode2* for *nrdc-PCmode-FR1* or for *nrdc-PCmode-FR2*- if the UE is not provided *tdd-UL-DL-ConfigurationCommon* for the MCG or SCG, the UE determines a transmission power for the MCG or for the SCG as described in Clauses 7.1 through 7.5 using or as the maximum transmission power, respectively - if at least one symbol of slot of the MCG or of the SCG that is indicated as uplink or flexible to a UE by *tdd-UL-DL-ConfigurationCommon* and *tdd*-*UL-DL-ConfigurationDedicated*, if provided, overlaps with a symbol for any ongoing transmission overlapping with slot of the SCG or of the MCG, respectively, the UE determines a power for the transmission on the SCG or the MCG overlapping with slot as described in Clauses 7.1 through 7.5 using or , respectively, as the maximum transmission power- otherwise, the UE determines a power for the transmission on SCG or the MCG overlapping with slot , as described in [8-3, TS 38.101-3] and in Clauses 7.1 through 7.5 without considering or , respectively |

**Moderator proposal:** Agree to the proposed changes and introduce them in the 38.213 editor’s alignment CR in thread 105-e-NR-AlignmentCRs-38213].

Please provide your comments to the table below

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| **Company**  | **Comment** |
| Huawei, HiSilicon | OK. |
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## 2.3 UA: Proposed changes in R1-2105375 to TS38.214

Five different change proposals to TS38.214 are made:

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| **Proposal 3: Adopt the following text in 38.214 5.2.1.5.1 “Aperiodic CSI Reporting/Aperiodic CSI-RS when the triggering PDCCH and the CSI-RS have the same numerology”:*** The aperiodic CSI-RS is transmitted in a slot ,

**Proposal 4: Adopt the following text in 38.214 5.2.2.5 “CSI reference resource definition”:*** In the time domain, the CSI reference resource for a CSI reporting in uplink slot *n'* is defined by a single downlink slot *n*-*nCSI\_ref*,

 - where **Proposal 5:** **Add the following text to the beginning of Chapter 5, 6, 8, of 38.214** The term “in the same slot” in this clause refers to the absolute timing duration of that slot on the designated cell according to the context.**Proposal 6: Add the following text to the starting paragraph of 38.214 5.1**If the frame boundaries of the scheduled and scheduling cell are not aligned, and the SCS of scheduling cell is smaller than or equal to the SCS of scheduled cell, the UE does not expect that the beginning of the slot containing a PDSCH is before the beginning of the slot carrying its scheduling DCI.**Proposal 7:** **Add the following text to the starting paragraph of 38.214 5.2.1.5.1**If the frame boundaries of the triggered and triggering cell are not aligned, and the SCS of triggering cell is smaller than or equal to the SCS of triggered cell, the UE does not expect that the beginning of the slot containing an aperiodic CSI-RS is before the beginning of the slot carrying its triggering DCI. |

**Moderator proposal:** Discuss the five change proposals and if agreeable adopt them to TS382.214

Please provide your comments to the table below

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| **Company**  | **Comment** |
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## 2.4 XCC: Proposed changes in R1-2105918 to 38.214

Correction of the subscript when referencing the SCS of a PDSCH in the section 5.5 of TS38.214 as below:

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| This clause applies only if the PDCCH carrying the scheduling DCI is received on one carrier with one OFDM subcarrier spacing (µPDCCH), and the PDSCH scheduled to be received by the DCI is on another carrier with another OFDM subcarrier spacing (µPDSCH). |

**Moderator proposal:** Agree to the proposed changes and introduce them in the 38.214 editor’s alignment CR in thread 105-e-NR-AlignmentCRs-38214].

Please provide your comments to the table below

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| **Company**  | **Comment** |
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## 2.5 Summary of round 1

To be written