**3GPP TSG-RAN WG4 Meeting # 98-e R4-210xxxx**

**Electronic Meeting, Jan. 25-Feb. 5, 2021**

**Agenda item:** 9.33.1

**Source:** Moderator (China Telecom)

**Title:** Email discussion summary for [98e][131] DL\_intrpt\_combos\_TxSW\_R17

**Document for:** Information

# Introduction

This email discussion thread is related to Downlink interruption for band combinations basket WI, and will focus on the topic of following aspects:

* Topic #1: TR skeleton, work plan and revised WID
* Topic#2: Downlink interruption analysis
  + Issue 2-1-1: DL interruption applicability for inter-band CA with 3bands
  + Issue 2-1-2: TP’s for approval

Note that the tables for collecting comments for sub-topic issues are arranged just below each issue.... and the tables for collecting comments for CR/TP are still kept at the original position.

# Topic #1: TR skeleton, work plan and revised WID

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations/Abstracts** |
| R4-2100373 | CATT | TR skeleton for Downlink interruption for band combinations to conduct dynamic Tx Switching |
| R4-2100374 | CATT | TR 37.xxx 0.1.0 for Downlink interruption for band combinations to conduct dynamic Tx Switching |
| R4-2101127 | China Telecom | Work plan on downlink interruption for band combinations to conduct dynamic Tx switching |
| R4-2101128 | China Telecom | revised WID, Update the WI title, code and TR remarks according to MCC suggestion |

## Open issues summary

*Before e-Meeting, moderators shall summarize list of open issues, candidate options and possible WF (if applicable) based on companies’ contributions.*

### Sub-topic 1-1: Work plan, TR skeleton and revised WID

This sub-topic will discuss rapporteur input for TR skeleton, work plan and revised WID.

**Issue 1-1-1: TR skeleton, draft TR**

* Recommended WF
  + It is recommended to agree TR skeleton of R4-2100373
  + It is recommended for email approval for the draft TR of R4-2100374

|  |  |
| --- | --- |
| **Company** | **Comments on Issue 1-1-1: TR skeleton, draft TR** |
|  |  |

**Issue 1-1-2: Revised WID**

* Summarization for the WID revision
  + Update the WI title, code and TR remarks according to MCC suggestion.
* Recommended WF
  + It is recommended to endorse the revised WID of R4-2101128

|  |  |
| --- | --- |
| **Company** | **Comments on Issue 1-1-2: Revised WID** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Issue 1-1-3: Work plan**

* Recommended WF
  + It is recommended to approve the work plan of R4-2101127

|  |  |
| --- | --- |
| **Company** | **Comments on Issue 1-1-3: Work plan** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* Further discussion on the revised WID. |

*Recommendations on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provides recommendation on CRs/TPs Status update*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
|  |  |
|  |  |
|  |  |
|  |  |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

# Topic #2: Downlink interruption analysis

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations/Abstracts** |
| R4-2100812 | CMCC | Proposal: It is proposed to list the list the uplink configurations for “no DL interruption allowed” for inter-band CA with more than 2 bands. |
| [R4-2100806](file:///E:\01%20标准\15%20Tx%20Switching\RAN4_98_e\Docs\R4-2100806.zip) | CMCC | TP on DL applicability of CA\_n3-n40-n41 for 37.xxx |
| [R4-2100807](file:///E:\01%20标准\15%20Tx%20Switching\RAN4_98_e\Docs\R4-2100807.zip) | CMCC | TP on DL applicability of CA\_n3-n41-n79 for 37.xxx |
| [R4-2100808](file:///E:\01%20标准\15%20Tx%20Switching\RAN4_98_e\Docs\R4-2100808.zip) | CMCC | TP on DL applicability of CA\_n8-n39-n41for 37.xxx |
| [R4-2100809](file:///E:\01%20标准\15%20Tx%20Switching\RAN4_98_e\Docs\R4-2100809.zip) | CMCC | TP on DL applicability of CA\_n8-n41-n79 for 37.xxx |
| [R4-2100810](file:///E:\01%20标准\15%20Tx%20Switching\RAN4_98_e\Docs\R4-2100810.zip) | CMCC | TP on DL applicability of CA\_n39-n41-n79 for 37.xxx |
| [R4-2100811](file:///E:\01%20标准\15%20Tx%20Switching\RAN4_98_e\Docs\R4-2100811.zip) | CMCC | TP on DL applicability of CA\_n40-n41-n79 for 37.xxx |

## Open issues summary

*Before e-Meeting, moderators shall summarize list of open issues, candidate options and possible WF (if applicable) based on companies’ contributions.*

### Sub-topic 2-1: Downlink interruption analysis

This sub-topic will discuss DL interruption applicability for inter-band CA with 3bands and corresponding TP’s for approval.

**Issue 2-1-1: DL interruption applicability for inter-band CA with 3bands**

* Proposals (R4-2100812)
  + Proposal: It is proposed to list the list the uplink configurations for “no DL interruption allowed” for inter-band CA with more than 2 bands. The proposed specification changes are:

**Table 5.2A.2.2-1: Inter-band CA operating bands involving FR1 (three bands)**

|  |  |  |
| --- | --- | --- |
| **NR CA Band** | **NR Band**  **(Table 5.2-1)** | **NO DL interruption allowed**  **(Note 3)** |
| CA\_n3-n40-n41 | n3, n40, n41 | CA n3-n40, CA n3-n41 |
| CA\_n3-n41-n79 | n3, n41, n79 | CA n3-n41, CA n3-n79, CA n41-n49 |
| CA\_n8-n39-n41 | n8, n39, n41 | CA n8-n39, CA n8-n41, CA n39-n41 |
| CA\_n8-n41-n79 | n8, n41, n79 | CA n8-n41, CA n8-n79, CA n41-n79 |
| CA\_n39-n41-n79 | n39, n41, n79 | CA n39-n79, CA n41-n79, CA n39-n41 |
| CA\_n40-n41-n791,2 | n40, n41, n79 | CA n40-n79, CA n41-n79 |
| NOTE 1: The frequency range below 2506 MHz for Band n41 is not used in this band combination.  NOTE 2: Applicable for frequency range above 4800 MHz for Band n79 in this band combination.  NOTE 3: Applicable when dynamic switching between two uplink carriers is conducted. The DL interruption requirement is specified in clause 8.2.2.2.10 of 38.133 [13]. | | |

* Recommended WF
  + Collect views on this proposal

|  |  |
| --- | --- |
| **Company** | **Comments on Issue 2-1-1: DL interruption applicability for inter-band CA with 3bands** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Issue 2-1-2: TPs for approval**

* Proposed TPs
  + R4-2100806, R4-2100807, R4-2100808, R4-2100809, R4-2100810, R4-2100811
* Recommended WF
  + Collect the comments for proposed TPs in the section 2.3.1. If no comments for certain of TP’s, the TP’s will be recommended as approved.

## Companies views’ collection for 1st round

### CRs/TPs comments collection

The following table aims to collect the comments for proposed TPs. If no comments for certain of TP, the TP will be recommended as approved in the summary for 1st round.

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2100806 | company A: |
|  |
|  |
| R4-2100807 |  |
|  |
|  |
| R4-2100808 |  |
|  |
|  |
| R4-2100809 |  |
|  |
|  |
| R4-2100810 |  |
|  |
|  |
| R4-2100811 |  |
|  |
|  |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Recommendations on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
|  |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provides recommendation on CRs/TPs Status update*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
|  |  |
|  |  |
|  |  |