**3GPP TSG-RAN WG4 Meeting #97-e R4-20XXXX**

**Electronic Meeting, Nov .2nd – 13th 2020**

**Agenda item:** 7.11.1

**Source:** Huawei, HiSilicon

**Title:** Email discussion summary for RAN4#96\_#112\_NR\_RF\_FR1\_Part\_1

**Document for:** Information

# Introduction

This part includes contributions in agenda 7.11.1.

Classify the contents into 5 topics:

1. Topic #1: intra-band CA requirement in Rel-16
2. Topic #2: DC location
3. Topic #3: Switching period between case1 and case2

candidate target of email discussion are as below:

* 1st round:
  + Align AMPR and MSD for CA\_n7B
  + Reach consensus on other issue for intra-band UL CA
  + Agree on the CRs if possible
* 2nd round:
  + Agree on the CR for AMPR and MSD for CA\_n7B
  + Agree on the big CR for intra-band NC CA resubmission
  + Agree on the LS to RAN2 on the compression solution for DC location
  + Anything not completed in 1st round

# Topic #1: intra-band CA Rel-16

*Main technical topic overview. The structure can be done based on sub-agenda basis.*

## Companies’ contributions summary

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| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2016042 | **Skyworks** | **NS\_27 (first change):**  **- Extend A7 region to match simulation results,**  **E-UTRA Band 10 protection (2nd,3rd,4th change):**  **- removed from NR bands: n2,n5/n89,n7,n12,n14,n25,n26,n28/n83,n30,n38,n41,n66/n86,n70,n77**  **- removed from the UE coexistence for relevant NR CA intra and inter-band combinations.** |
| R4-2014956 | ZTE | Summary of change  (1) Merge the contents of intra-band non-contiguous CA bands into Table 5.2A.1-1.  (2) Remove intra-band non-contiguous CA bands in Table 5.2A.1-2.  (3) Move section title for SUL bands from section 5.2B to 5.2C.  Correct NR band combination for SUL in Table 5.2C-2. |
| R4-2015557 | Huawei | Summary of change   1. To move the sentence “5.2C Operating band combination for SUL” as headline of sub-clause 5.2C. 2. To change the notation of CA\_n78(2A)\_SUL\_n78A-n86A into SUL\_n78(2A)-n86A. 3. To move the sentence “6.3C Output power dynamics for SUL” as headline of sub-clause 6.3C. |
| R4-2014171 | Qualcomm | Observation 1: Needed AMPR for contiguous allocations varies approximately according to the overall BW\_CA, independent of the constituent bandwidths.  Observation 2: Needed AMPR for non-contiguous allocations varies approximately according to the overall BW\_CA, independent of the constituent bandwidths.  Proposal 1: Contiguous AMPR values proposed in section 5.1.  Proposal 2: Non-contiguous AMPR values proposed in section 5.2.  Observation 3: TX distortion with single CC wide BW is like TX distortion with 1UL/2DLCA, but distortion is spread across 2 CCs. Only outer RB allocations will require MSD.  Proposal 3: For contiguous allocations, apply MSD and UL configuration as shown in Table 6.1.2. The RB boundary for contiguous allocations where no MSD applies is shown in Table 6.1.3.  Observation 4: For non-contiguous allocations, MSD and UL configuration is shown in Table 6.2.2 assuming MPR is taken to meet general spurious emission requirement. MSD values will be higher with less MPR. |
| R4-2014518 | Nokia | Addition of A-MPR definition for CA\_n7B, CA\_n41B, CA\_n41C and CA\_n48B and associated requirements including general CA A-MPR section. CA\_7B MSD defined. |
| R4-2014519 | Nokia | Proposals on CA\_7B A-MPR.   * Contiguous allocation   For all modulations and scs when BWChannel\_CA > 25 MHz and Fedge,high = 2570 MHz  IF RBEnd > NRB\_agg 5/6 OR  LCRB > NRB\_agg - LCRB + NRB\_agg /3  OR  RBEnd < NRB\_agg /6 AND LCRB < 5  THEN A-MPR = 9 dB,  ELSE IF LCRB 2/3 < RBend < NRB\_agg 5/6 AND LCRB < NRB\_agg /4  THEN A-MPR = 0 dB,  OTHERWISE A-MPR = 4 dB.  When BWChannel\_CA <= 25 MHz and Fedge,high = 2570 MHz  IF LCRB > NRB\_agg - LCRB + NRB\_agg /2  THEN AMPR = 6 dB.  OTHERWISE A-MPR = 0 dB.  When Fedge\_high <= 2570 MHz - BWChannel\_CA, A-MPR = 0 dB.   * Non-contiguous allocation   When BWChannel\_CA > 25 MHz and Fedge\_high = 2570 MHz,  A-MPR =  18 - 6e-06 B; 0 <= B <= 5e+05  15.9 - 1.75e-06 B; 5e+05 < B <= 4.5e+06  When BWChannel\_CA <= 25 MHz and Fedge\_high = 2570 MHz,  A-MPR =  11; 0 <= B <= 1e+06  11.4 - 3.85e-07 B; 1e+06 < B <= 7.5e+06  9.14 - 8.57e-08 B; 7.5e+06 < B <= 2.5e+07  When Fedge\_high <= 2570 MHz - BWChannel\_CA and 25 MHz < BWChannel\_CA <= 35 MHz,  A-MPR =  11; 0 <= A <= 2e+06  12.2 - 5.77e-07 A; 2e+06 < A <= 1.5e+07  3.5; 1.5e+07 < A <= 3.5e+07  When Fedge\_high <= 2570 MHz - BWChannel\_CA and BWChannel\_CA <= 25 MHz,  7.5; 0 <= A <= 1e+06  7.89 - 3.89e-07 A; 1e+06 < A <= 1e+07  4.67 - 6.67e-08 A; 1e+07 < A <= 2.5e+07 |
| R4-2014909 | Apple | ***Proposal 1****: Revise FR1 UL NC CA frequency separation classes definition to as shown in Table 2.1-2.*   |  |  | | --- | --- | | NR NC CA frequency separation class | Maximum allowed frequency separation | | I | 100 MHz | | II | 200 MHz | | III | [600 MHz] |   ***Proposal 2****: Revise UE power class specifications for FR1 intra-band UL NC CA to as shown in Table 2.2-2.*   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | NR CA Configuration | Class 1 (dBm) | Tolerance (dB) | Class 2 (dBm) | Tolerance (dB) | Class 3 (dBm) | Tolerance (dB) | Class 4 (dBm) | Tolerance (dB) | | CA\_n41(2A) |  |  |  |  | 23 | +2/-31 |  |  | | CA\_n77(2A) |  |  |  |  | 23 | +2/-31 |  |  | | CA\_n78(2A) |  |  |  |  | 23 | +2/-31 |  |  | | NOTE 1: For transmission bandwidths confined within FUL\_low and FUL\_low + 4 MHz or FUL\_high – 4 MHz and FUL\_high, the maximum output power requirement is relaxed by reducing the lower tolerance limit by 1.5 dB  NOTE 2: PPowerClass is the maximum UE power specified without taking into account the tolerance  NOTE 3: For intra-band non-contiguous carrier aggregation the maximum power requirement shall apply to the total transmitted power over all component carriers (per UE). | | | | | | | | | |
| R4-2016009 | Skyworks | **Proposal 1:**  **For an IMD3 falling in the -40dBm/MHz, the proposed MPR curve coefficients versus total RB bandwidth are:**  **-40dBm/MHz A-MPRCA\_IM3 = 20; 0 ≤ B <1.08**  **19.5; 1.08 ≤ B <2.16**  **19; 2.16 ≤ B <3.24**  **18.5; 3.24 ≤ B < 5.04**  **18; 5.04 ≤ B < 10.08**  **17; 10.08 ≤ B < 16.56**  **16; 16.56 ≤ B < 21.96**  **13; 21.96 ≤ B**  **For an IMD5 falling in the -40dBm/MHz region, the proposed MPR curve coefficients versus total RB bandwidth are:**  **-40dBm/MHz A-MPRCA\_IM5=    13; 0 ≤ B <1.08**  **12; 1.08 ≤ B <2.16**  **11; 2.16 ≤ B <3.24**  **10; 3.24 ≤ B < 5.04**  **8.5; 5.04 ≤ B < 10.08**  **7.5; 10.08 ≤ B < 16.56**  **7; 16.56 ≤ B < 21.96**  **6.5; 21.96 ≤ B**  **Proposal 2:**  **For aggregation of two or more downlink FDD carriers with one uplink carrier, the reference sensitivity is defined only for the specific uplink and downlink test points which are specified in Table 7.3A.2.1-1. The requirements apply with all downlink carriers active. Unless given by Table 7.3.2-4, the reference sensitivity requirements shall be verified with the network signaling value NS\_01 (Table 6.2.3.1-1) configured.**  Table 7.3A.2.1-1: Intra-band contiguous CA with dual uplink configuration for reference sensitivity   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | CA configuration | SCS  (kHz) | Aggregated channel bandwidth (PCC+SCC) | UL PCC allocation  (LCRB) | UL SCC allocation  (LCRB) | ΔRIBNC (dB) | Duplex mode | | CA\_n7B | 15+15 | 52RB+216RB | 20 (RBstart = 32) | 25 (RBstart = 191) | [34] | FDD | | NOTE 1: All combinations of channel bandwidths defined in Table 5.5A.1-1.  NOTE 2: The carrier centre frequency of SCC in the UL operating band is configured closer to the DL operating band.  NOTE 3: The transmitted power over both PCC and SCC shall be set to PUMAX as defined in subclause 6.2.4.  NOTE 4: The PCC allocation is same as Transmission bandwidth configuration NRB as defined in Table 5.3.2-1. | | | | | | | |
| R4-2016513 | Huawei, HiSilicon | Intra-band NC CA CR resubmission |
| R4-2016515 | Huawei, HiSilicon | ***Observation 1: According to RAN1/2 spec on PUSCH processing capability, the delay between UL DCI and PUSCH transmission can be different for CCs. It means that DCI timing for PUSCH transmission overlapped in time for CCs can be different. It can be depicted in figure 2:***    ***Observation 2: For NR intra-band UL CA, Pcmax,f,c for PHR reporting cannot be ensured to use the same Pcmax,f,c in physical layer: Ppowerclass-max(MPR, AMPR), where MPR and AMPR are specified for intra-band UL CA.***  ***Proposal 1: For NR intra-band contiguous and non-contiguous UL CA,*** ***the Pcmax,f,c for each CC is defined as the Pcmax using the MPR defined for single carrier.*** |

## Open issues summary

### Sub-topic 1-1 RF requirement for CA\_n7B

**Issue 1-1-1: AMPR**

* Proposals
  + Option 1: AMPR in R4-2014171
  + Option 2: AMPR in R4-2014518
  + Option 3: AMPR in R4-2016009
* Recommended WF
  + **TBA**

**Issue 1-1-2: MSD and UL configuration**

* Proposals
  + Option 1: MSD in R4-2014171
  + Option 2: MSD in R4-2014518
  + Option 3: MSD in R4-2016009
* Recommended WF
  + **TBA**

### Sub-topic 1-2 Other requirement

**Issue 1-2-1: Separation class for FR1 NC CA**

* Proposals
  + **Option 1:**  **Revise the frequency separation class for FR1 NC CA**

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| NR NC CA frequency separation class | Maximum allowed frequency separation |
| I | 100 MHz |
| II | 200 MHz |
| III | [600 MHz] |

* + **Option 2: keep it as agreed in the last meeting**

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| NR NC CA frequency separation class | frequency separation |
| I | 20 MHz ≤ BWChannel\_NC\_CA ≤ 100 MHz |
| II | 100 MHz < BWChannel\_NC\_CA ≤ 200 MHz |
| III | 200MHz<BWChannel\_NC\_CA≤ [600MHz] |

* Recommended WF
  + **TBA**

**Issue 1-2-2: power class tolerance for FR1 NC CA**

* Proposals
  + **Option 1:** 23dBm with +2/-3dB tolerance
  + **Option 2:** 23dBm with +2/-2dB tolerance
* Recommended WF
  + **TBA**

**Issue 1-2-3: Pcmax for intra-band UL CA**

* Proposals
  + ***the PCMAX,L,f,c for each CC is defined as: PCMAX\_L,f,c = MIN {PEMAX,c– ∆TC,c, (PPowerClass – ΔPPowerClass) – MAX(MAX(MPRc+∆MPRc, A-MPRc)+ ΔTIB,c + ∆TC,c + ∆TRxSRS, P-MPRc) }, where MPRc and AMPRc use the MPR and AMPR defined for single carrier.***
* Recommended WF
  + **TBA**

## Companies views’ collection for 1st round

### Open issues

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| **Sub-topic** | **Comments: (Company: …)** |
| 1-1 | **Issue 1-1-1:** |
| **Issue 1-1-2:** |
| 1-2 | **Issue 1-2-1:** |
| **Issue 1-2-2:** |
| **Issue 1-2-3:** |

### CRs/TPs comments collection

*Major close-to-finalize WIs and Rel-15 maintenance, comments collections can be arranged for TPs and CRs. For Rel-16 on-going WIs, suggest to focus on open issues discussion on 1st round.*

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| **CR/TP number** | **Comments collection** |
| R4-2016042 |  |
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| R4-2014956 |  |

## 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.*

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| Sub-topic#1 | *Recommendations for 2nd round:* |
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*Recommendations on WF/LS assignment*

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

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

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| **CR/TP number** | **CRs/TPs Status update recommendation** |
| R4-2016042 |  |
| R4-2014956 |  |
| R4-2015557 |  |

## Discussion on 2nd round (if applicable)

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| T-doc number | Title | Comments |
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## 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*

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| **CR/TP/LS/WF number** | **Title** | **T-doc Status update recommendation** |
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# Topic #2: DC location

*Main technical topic overview. The structure can be done based on sub-agenda basis.*

## Companies’ contributions summary

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| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2014714 | Qualcomm | Observation 1: Since the list of possible BWP permutations is long and for CA network may not even have intent to activate all possible permutations of BWPs, a convenient way to simplify is for network to provide a list of likely BWP permutations to UE  Observation 2: RAN2 will need to develop new method to index the DC location for CA  Observation 3: With 2 PA reference architecture, two simultaneous DC locations need to be signalled  Observation 4: In some cases, DC is never located in some CC’s and UE will not include DC location those CC’s  Observation 5: Network can reduce the list of BWP permutations if UE informs that some BWP’s have no impact on DC location  And made one proposal:  Proposal: Send LS to ran2 about the future proof DC location framework information. |
| R4-2014910 | Apple | **Observation 1**: UL DC location reporting mechanism based on all BWP permutations is rather inefficient for large number of aggregated carriers.  **Observation 2**: For TDD bands, UL DC location may depend on either DL or UL BWP configuration for certain UE implementation.  **Observation 3**: UL DC location reporting mechanism based on all UL/DL BWP permutations could be rather inefficient even with only 2 activated carriers.  **Observation 4**: UL DC location reporting based on dynamic signalling is more efficient, flexible and independent of number of aggregated carriers which also implies better forward compatibility. |
| R4-2015212 | Nokia | **Observation 1: The frequency point in the middle of DC locations indicated for the 2 active BWPs is not the centre if the active BWPs do not have the same size.**  **Observation 2: The amount of signalling overhead would grow exponentially and generate complexity for both UEs and networks.**  **Observation 3: The method would increase frequency of retuning during transmission.**  **Observation 4: The method would force UE to make DC locations for each of the BWPs per CC the centre of each of the BWPs.**  As the results, in order to make the method in [3] more practical, we proposed the following alternative.  ***Proposal: Send an LS to RAN2 to share the following alternative***  Identify the DC location for intra band UL CA by establishing the following rule.   * **NW determines the BWP locations and transmission bandwidths according to the network configuration.** * **As default, network considers DC location for intra band UL CA is the centre of the lower edge of the lowest CC and the higher edge of the highest CC among all the active CCs.** * **If a UE has an additional DC location reporting for intra-band CA, the network considers DC location is the centre of the lower edge of the lowest active BWP and the higher edge of the highest active BWP among all the active CCs.** |
| R4-2015565 | Intel | ***Proposal: RAN4 agrees not to consider SUL in DC location information signaling.*** |
| R4-2015997 | Skyworks | **Proposal: A generic solution is designed in Release 17 for DC location signaling for intra or ganged bands combinations that supports:**   * **FR1 and FR2 with more than 2 UL contiguous or non-contiguous CCs and their combinations** * **Compatible with Implementations using one transmit path for multiple CC or one transmit path per CC and enabling dynamic configuration between the two.** |
| R4-2016514 | Huawei, HiSilicon | ***Observation 1: For 2 UL contiguous CCs, there is not much signalling introduced by additional DC location.***  ***Observation 2: The DC locations for a CA combination are determined by the activated lower bound CC in the lowest frequency and activated upper bound CC in the highest frequency.***  ***Observation 3:*** ***The maximum number of possible DC locations for UL CA with nth UL contiguous carrier in a band would be [42\* C n2].***  ***Proposal 1: Send LS to RAN2 to inform them on DC locations for a CA combination are determined by the activated lower bound CC in the lowest frequency and activated upper bound CC in the highest frequency.*** |

## Open issues summary

### Sub-topic 2-1: DC location reporting in Rel-16

**Issue 2-1-1: compression solution**

* Proposals
  + **Option 1:** 
    - * network to provide a list of likely BWP permutations to UE
      * DC is never located in some CC’s and UE will not include DC location those CC’s
      * Network can reduce the list of BWP permutations if UE informs that some BWP’s have no impact on DC location
  + **Option 2:** The DC locations for a CA combination are determined by the activated lower bound CC in the lowest frequency and activated upper bound CC in the highest frequency. Only report possible DC locations for all the 2CCs pairs within the configured CA band combination. The maximum number of possible DC locations for UL CA with nth UL contiguous carrier in a band would be [Cn2\*16].
  + **Option 3:** As default, network considers DC location for intra band UL CA is the centre of the lower edge of the lowest CC and the higher edge of the highest CC among all the active CCs.

If a UE has an additional DC location reporting for intra-band CA, the network considers DC location is the centre of the lower edge of the lowest active BWP and the higher edge of the highest active BWP among all the active CCs.

* **Option4: dynamic signalling without an specific solution**
* Recommended WF
  + **TBA**

**Issue 2-1-2: LS to RAN2**

* Proposals
  + **Option 1:** R4-2014714
  + **Option 2:** R4-2015212
  + **Option 3:** R4-2016514
  + **Option 4:** Other
* Recommended WF
  + **TBA**

**Issue 2-1-3: Whether DC location for SUL need to be considered**

* Proposals
  + **Option 1:** Yes
  + **Option 2: No**
* Recommended WF
  + **TBA**

### Sub-topic 2-2: DC location in Rel-17

*Provide comments for each CR, we are targeting to complete this part in the 1st round fast*

**Issue 2-2-1: If DC location reporting in Rel-16 solve signalling number with compression solution in issue1-1-1 for more than 2CC case, do we need any Rel-17 enhancement?**

* Proposals
  + **Option 1:** Yes
  + **Option 2:** No
* Recommended WF
  + **TBA**

## Companies views’ collection for 1st round

### Open issues

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| **Sub-topic** | **Comments: (Company: …)** |
| 2-1 | **Issue 2-1-1:** |
| **Issue 2-1-2** |
| **Issue 2-1-3** |
| 2-2 | **Issue 2-2-1:** |

### CRs/TPs comments collection

*Major close to finalize WIs and Rel-15 maintenance, comments collections can be arranged for TPs and CRs. For Rel-16 on-going WIs, suggest to focus on open issues discussion on 1st round.*

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| **CR/TP number** | **Comments collection** |
|  | Company A |
| Company B |
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## 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.*

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| **Sub-topic** | **Status summary** |
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*Suggestion on WF/LS assignment*

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

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

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| **CR/TP number** | **CRs/TPs Status update recommendation** |
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## Discussion on 2nd round (if applicable)

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## 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*

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| T-doc number | Title | **T-doc Status update recommendation** |
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# Topic #3: Switching period between case 1 and case 2

## Companies’ contributions summary

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| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2014464 | CATT | Proposal 1: It is proposed to capture DL interruption applicability in 38.101-1/-2/-3 and reuse the corresponding CA/DC/SUL band combination tables.  - A reference to the DL interruption requirement in 38.133 can be added to the band table.  Proposal 2：A clear indication should be considered for each band combination in the table,  - If Tx switching between carriers are supported and DL interruption is allowed, adding “Yes”  - If Tx switching between carriers are supported but DL interruption is not allowed, adding “No”  - If Tx switching is not supported, adding “N/A” |
| R4-2015195 | China Telecom | **Summary of change**  Indicate that for some UL CA configurations, DL interruption is not allowed. |
| R4-2015196 | China Telecom | **Summary of change**  Indicate that for some EN-DC configurations, DL interruption is not allowed. |
| R4-2015975 | Ericsson | **Summary of change**  Clause 6.2A.1.3: for CA configuration of PC3, the requirements for PC2 for uplink operation in n41, n77, n78 and n79 apply when the *uplinkTxSwitchingPowerBoosting-r16* is enabled and *uplinkTxSwitching-PowerBoosting-r16* is supported.  Clause 6.2A.2.3: it is clarified that the MPR for power class 2 applies when boosting is enabled.  Clause 6.2A.3.1.3: it is clarified that the A-MPR for power class 2 applies when boosting is enabled.  Clause 6.2A.4.1.3: the PCmax for UL CA is modified with boosting for the default CA power class (PC3). This change does not modify the CA power class indicated for the band combination (the default), but the PCMAX for CA is increased (and the threshold at which the UE should start scaling according to clause 7.5 of 38.213) by Ppowerclass,CA = 3 dB (i.e. 26 dBm total for CA). The UE might support either PC3 or PC2 for the consituent bands but the CA power class is the default. The PEMAX,CA must be set to 26 dBm to enable boosting, configured by the gNB.  Clause 6.3A.3.3: a reference to the specification of the power boosting is added and the IE names corrected in accordance with the latest version of 38.331. |

## 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 3-1 DL interruption

**Issue 3-1-1: Applicability on DL interruption**

* Proposals
  + Option 1: Capture DL interruption applicability in 38.101-1/-2/-3 and reuse the corresponding CA/DC/SUL band combination tables, a reference to the DL interruption requirement in 38.133 can be added to the band table. A clear indication should be considered for each band combination in the table with ‘yes’, ‘no’ and ‘N/A’
  + Option 2: Other
* Recommended WF
  + TBA

## Companies views’ collection for 1st round

### Open issues

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| **Sub-topic** | **Comments (Company: …)** |
| 3-1 | **Issue 3-1-1** |

### CRs/TPs comments collection

*Major close to finalize WIs and Rel-15 maintenance, comments collections can be arranged for TPs and CRs. For Rel-16 on-going WIs, suggest to focus on open issues discussion on 1st round.*

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| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2015195 |  |
| R4-2015196 |  |
| R4-2015975 |  |

## 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.*

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| **Sub-topic#3** | **Status summary** |
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*Suggestion on WF/LS assignment*

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

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

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| **CR/TP number** | **CRs/TPs Status update recommendation** |
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## Discussion on 2nd round (if applicable)

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| T-doc number | Title | Comments |
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## 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*

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| T-doc number | Title | **T-doc Status update recommendation** |
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