**3GPP TSG- Meeting #**

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**Agenda item:** 6.8

**Source:** Moderator (China Telecom)

**Title:** Topic summary for [116][111] HPUE\_Basket\_CADC\_SUL

**Document for:** Information

# Introduction

*List of candidate target of discussions for this topic.*

* *TPs*
* *draft CRs*
* *MSD for 3Tx UL CA combinations with 2Tx FDD + 1Tx TDD*

# Topic #1: TPs.

*TPs will be handled by NWM flagging procedure.*

# Topic #2: draft CRs.

*draft CRs will be handled by NWM flagging procedure.*

# Topic #3: On UL Tx Switching for HPUE

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| **T-doc number** | **Title** | **Company** |
| R4-2511539 | On UL Tx Switching for HPUE | Lenovo |

* Issue 1: On UL Tx Switching for HPUE
  + Proposal 1: To indicate the applicability of HPUE to UL switching, modify the note 8 and note 9 as follows:

*NOTE 8: Minimum requirements for Power Class 2 are applicable for this uplink combination with 1Tx antenna connector in each band, for single uplink carrier with up to 2Tx antenna connectors in this downlink combination, or in this downlink combination with uplinkTxSwitchingOption configured for switchedUL.*

*NOTE 9: Minimum requirements for Power Class 1.5 are applicable for this single uplink carrier with up to 2Tx antenna connectors in this downlink combination or in this downlink combination with uplinkTxSwitchingOption configured for switchedUL.*

* Way Forward: The proposals are not pursued.

Samsung Tina:

1) The proposed change is core requirements change, should not be discussed via basket WI

2) Note 8/9 were already totally changed in HPUE thread 117 by endorsed dCR, the new changes is not such compatible anymore

3) In thread 117 HPUE, for a band within a band combination, we are proposing to allow the UE to transmit up to per-band power class, utilizing the success of MSD LUT. Which in our understanding is a more thorough solution and will benefit both CA with and without Tx switching.

CHTTL Tank: In our understanding, the "switchedUL" of the uplinkTxSwitching-Option is under the inter-band UL CA, instead of downlink CA, so the proposed changes seem not compatible.

Qualcomm (Antti) flags this. We need to discuss this a bit more

Lenovo (Colin): Apologies for submitting this in the wrong agenda item as noted above. If the issue is handled in the new draft CR, then that is fine. The existing notes did not seem to allow for switched uplink to using the higher power class allowed for single uplink carrier.

# Topic #4: SUL REFSENS and missing PC2 MSD

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| **T-doc number** | **Title** | **Company** |
| R4-2511628 | SUL REFSENS and missing PC2 MSD | Skyworks Solutions, Inc. |

* Proposal 1: Due to few meetings remaining before the end of Release-19, it is proposed to specify the missing PC2 1UL SUL band MSD requirements by porting the NR-CA HPUE MSD Look-Table into clause 7.3C.
* Proposal 2:
  + Change the titles of Table 7.3C.2-2 and Table 7.3C.2-4 to clarify that these are the PC3 MSD requirements
  + Correct the PC3 SUL\_n79-n97 MSD test points
  + Introduce a new PC3 legacy format RX harmonic mixing MSD table to capture the missing Band n41 MSD for SUL\_n41-n98 as proposed in the table below
* Proposal 3: Consider clarifying the PC3 and PC2 REFSENS requirements for the identified SUL configurations.

Apple: support the proposals.

Agreement:

* Proposal 1: Due to few meetings remaining before the end of Release-19, it is proposed to specify the missing PC2 1UL SUL band MSD requirements by porting the NR-CA HPUE MSD Look-Table into clause 7.3C.
* Proposal 2:
  + Change the titles of Table 7.3C.2-2 and Table 7.3C.2-4 to clarify that these are the PC3 MSD requirements
  + Correct the PC3 SUL\_n79-n97 MSD test points
  + Introduce a new PC3 legacy format RX harmonic mixing MSD table to capture the missing Band n41 MSD for SUL\_n41-n98 as proposed in the table below
* Proposal 3: Consider clarifying the PC3 and PC2 REFSENS requirements for the identified SUL configurations.