**3GPP TSG-RAN WG4 Meeting #110 *R4-240***

**Greece, Athens, February 26 – March 1, 2024**

**Source:** Huawei, HiSilicon

**Title:** TP for TR 37.718-00-00 to clarify the new rules for SUL combos' notation

**Agenda item:** 7.13.2

**Document for:** Approval

# 1 Background

This contribution provides some background on new rules for SUL combinations’ notation referring to WF [1].

# 2 Text Proposal

##### ---Start of changes TR 37.718-00-00 ---

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] RP-221839, "New WID: Rel-18 Band combinations for SA NR supplementary uplink (SUL), NSA NR SUL, NSA NR SUL with UL sharing from the UE perspective (ULSUP)", RAN#96

[3] R4-2306546, "WF on the notation for single SUL CA combinations", Apple

[4] R4-2309086, "CR for 38.101-1: Single SUL CA combination notation modifications", Apple

# 4 Background

The present document is a technical report for SA NR SUL, NSA NR SUL and NSA NR SUL with UL sharing from ULSUP under Rel-17 time frame. It covers both the UE and BS side. The document is divided in different parts:

- Specific SA NR SUL part: this part covers each band combination and its specific issues independently from each other (i.e. one subclause is defined per band combination)

- Specific NSA NR SUL part: this part covers each band combination and its specific issues independently from each other (i.e. one subclause is defined per band combination)

- Specific NSA NR SUL with UL sharing from ULSUP part: this part covers each band combination and its specific issues independently from each other (i.e. one subclause is defined per band combination)

## 4.1 TR Maintenance

A single company is responsible for introducing all approved TPs in the current TR, i.e. TR editor. However, it is the responsibility of the contact person of each band/band combination to ensure that the TPs related to the band/band combination have been implemented.

## 4.2 Clarification on single SUL CA notation

Referring to the WF [3] and Rel-18 CR [4], the notations for single SUL CA combinations have been revised based on new rules in current specification. Three exemplary band combinations are provided below.

|  |  |  |  |
| --- | --- | --- | --- |
| **CA configuration** | **Old notation** | **New notation** | **Note** |
| Intra-band contiguous | SUL\_n41C-n80A | CA\_n41C-n80A | For the two NUL carriers within CA\_n41C-n80A, the SUL band n80 is corresponding to one of them in one cell. |
| Intra-band non-contiguous | SUL\_n41(2A)-n99A | CA\_n41(2A)-n99A | For the two NUL carriers within CA\_n41(2A)-n99A, the SUL band n99 is corresponding to one of them in one cell. |
| Inter-band | CA\_n1A\_SUL\_n78A-n80A | CA\_n1A\_n78A-n80A | For the two NUL carriers within CA\_n1A\_n78A-n80A, the SUL band n80 is corresponding to n78 in one cell. |

Unless stated others, the existing notations in this TR have the same meanings as the corresponding notations for single SUL CA combinations in current specification.

##### ---End of changes---

# Reference

[1] R4-2306546, “WF on the notation for single SUL CA combinations”, Apple