

**3GPP TSG RAN Meeting #100**

**RP-231028**

**Taipei, June 12 - 14, 2023**

**Agenda Item: 9.3.4.14**

**Source: vivo**

**Title: Scope of BWP operation without restriction WI**

**Document for: Discussion & Decision**

# WI progress

## Background

- In RAN4#106bis-e meeting, following agreements were made.

### Agreement

- It is a common RAN4 understanding that **support of L3 measurements based on NCD-SSB for Option C can be beneficial**, but it is **not explicitly included in the WI objectives**. Whether to support L3 measurements based on NCD-SSB is up to RAN decision.
- RAN4 work will focus on enabling L1 measurements based on NCD-SSB in Q2'2023.

### Agreement

- It is a common RAN4 understanding that L3 measurements requirements impact for options B-1-1 and B-1-2 are **not explicitly included in the WI objectives**.
- RAN4 work will focus on enabling L1 measurements for option B-1-1 and B-1-2 in Q2'2023
- In RAN4 #107 RAN4 can continue discussion on whether any further clarifications are needed on intra-frequency measurements for UEs supporting options B-1-1 and B-1-2

- In RAN4#107 meeting, LS R4-2310177 [1] was agreed.
  - It is a common RAN4 understanding that support of L3 measurement requirements impact for options B-1-1, B-1-2 and C are not explicitly included in the WI objectives. In the RAN4#106-bis-e meeting it was agreed that the support of L3 measurements based on NCD-SSB for Option C can be beneficial. RAN4 is not planning to introduce the support of L3 measurements in Rel-18 unless the respective objectives are included in the NR\_BWP\_wor WID.
  - Note: the L3 measurements above are L3 SSB-based intra-frequency measurements.

# WI progress

## Background

- Additionally
  - It can also be beneficial if handover directly to a BWP with NCD-SSB is supported for option C
    - Handover to a BWP with CD-SSB and then switch to a BWP with NCD-SSB can be avoided
  - It can also be beneficial if handover directly to a BWP without SSB is supported for option A and option B-1-1
    - Handover to a BWP with CD-SSB and then switch to BWP without SSB can be avoided
- TU budget
  - Based on the WID [2], the TU budget is enough for handling L3 measurement requirements related issues

	R4RD	R4RD	R4RD	R4RD	R4RD	R4RD	R4RD	R4RD	RAN
	106bis	107	108	108bis	109	109bis	110	110bis	104 June.24
Core part	0.25	0.25	0.5	0.5	0.5				
Perf part						0.1	0.1	0.1	

# WF on scope of BWP operation without restriction

- Including the following L3 related objectives in the Rel-18 BWP operation without restriction WI
  - For Option C
    - To allow intra-frequency and inter-frequency measurements based on NCD-SSB and handover UE to a BWP with NCD-SSB (RAN4, RAN2)
  - For Option B-1-1
    - To allow intra-frequency measurement without gap (RAN4)

# Reference

1. R4-2310177 LS on L3 related requirements for the options for BWP operation without restriction, vivo, Vodafone Italia SpA, RAN4#107
2. RP-230805 New WID: Complete the specification support for BandWidth Part operation without restriction in NR, Moderator (Vodafone), vivo, RAN#99

**THANK YOU.**

**谢谢。**