3GPP TSG-RAN WG4 Meeting # 108bis R4-2317401

Xiamen, China, 9th – 13th October, 2023

**Title:** Reply LS on update for “interBandMRDC-WithOverlapDL-Bands-r16” in 38.306

**Response to:** R2-2309218

**Release:** Rel-16

**Work Item:** TEI16

**Source:** RAN4

**To:** RAN2

**Cc:**

**Contact person:** **Yuexia.Song@Apple.com**

**Send any reply LS to:** 3GPP Liaisons Coordinator, mailto:3GPPLiaison@etsi.org

**Attachments:** None

# 1 Overall description

RAN4 thanks RAN2 for the LS reply on interBandMRDC-WithOverlapDL-Bands-r16. RAN4 discussed the issues raised by RAN2 and would like to provide RAN4 agreement on the MTTD/MRTD requirements applicability.

**Question 1:** For UE supporting and not supporting interBandMRDC-WithOverlapDL-Bands-r16, what are the requirements in NE-DC operation respectively?

**[RAN4 answer]:**

The applicability of MRTD/MTTD requirements for UE supporting and not supporting interBandMRDC-WithOverlapDL-Bands-r16 in NE-DC operation is as following:

* *If asyncIntraBandENDC UE capability is supported, the current MRTD/MTTD requirement for asynchronous NE-DC as specified in TS 38.133 Table 7.6.5-1/7.5.5-1 apply.*
* *If asyncIntraBandENDC UE capability is not supported,*
	+ *The current MRTD/MTTD requirement for synchronous inter-band NE-DC as specified in TS 38.133 Clause 7.6.5.1/7.5.5.1 should apply for UE supporting interBandMRDC-WithOverlapDL-Bands-r16 (corresponding to non-collocated scenario).*
	+ *The current MRTD/MTTD requirement for synchronous intra-band collocated EN-DC as specified in TS 38.133 Clause 7.6.3/7.5.3 should apply for UE not supporting interBandMRDC-WithOverlapDL-Bands-r16 (corresponding to collocated scenario).*

**Question 2:** For FDD-FDD inter-band EN-DC with overlapping frequency, if UE does not report interBandMRDC-WithOverlapDL-Bands-r16, what are the MRTD requirements for asynchronous operation? And are there any differences on MRTD requirements in asynchronous operation for UE(s) supporting and not supporting interBandMRDC-WithOverlapDL-Bands-r16?

**[RAN4 answer]:**

The applicability of MRTD requirements for FDD-FDD inter-band EN-DC with overlapping downlink frequency is as following:

* *If asyncIntraBandENDC UE capability is supported, the current requirement for asynchronous EN-DC as specified in TS 38.133 Table 7.6.2-1 apply.*
* *If asyncIntraBandENDC UE capability is not supported,*
	+ *The current requirement for synchronous inter-band EN-DC as specified in TS 38.133 Clause 7.6.2.1 should apply for UE supporting interBandMRDC-WithOverlapDL-Bands-r16 (corresponding to non-collocated scenario).*
	+ *The current requirement for synchronous intra-band collocated EN-DC as specified in TS 38.133 Clause 7.6.3 should apply for UE not supporting interBandMRDC-WithOverlapDL-Bands-r16 (corresponding to collocated scenario).*

**Question 3:** For FDD-FDD inter-band EN-DC with overlapping frequency, if UE does not report interBandMRDC-WithOverlapDL-Bands-r16, what are the MTTD requirements for both synchronous and asynchronous operations? And for asynchronous operation, are there any differences on MTTD requirements for UE(s) supporting and not supporting interBandMRDC-WithOverlapDL-Bands-r16?

**[RAN4 answer]:**

The applicability of MTTD requirements for FDD-FDD inter-band EN-DC with overlapping downlink frequency is as following:

* *If asyncIntraBandENDC UE capability is supported, the current requirement for asynchronous EN-DC as specified in TS 38.133 Table 7.5.2-1 apply.*
* *If asyncIntraBandENDC UE capability is not supported,*
	+ *The current requirement for synchronous inter-band EN-DC as specified in TS 38.133 Clause 7.5.2.1 should apply for UE supporting interBandMRDC-WithOverlapDL-Bands-r16 (corresponding to non-collocated scenario).*
	+ *The current requirement for synchronous intra-band collocated EN-DC as specified in TS 38.133 Clause 7.5.3 should apply for UE not supporting interBandMRDC-WithOverlapDL-Bands-r16 (corresponding to collocated scenario).*

# 2 Actions

**To RAN2:**

**ACTION:** RAN4 respectfully asks RAN2 to consider the above reply from RAN4

# 3 Dates of next TSG-RAN WG4 meetings

TSG-RAN WG4 Meeting #109 13th – 17th Nov 2023 Chicago, US

TSG-RAN WG4 Meeting #110 26th Feb – 1st Mar 2024 Athens, Greece