**3GPP TSG RAN WG4 Meeting #95-e R4-2008455**

**Electronic meeting, 25th May – 5th June 2020** (revision of R4-2008200)

**Agenda Item: 6.4.2**

**Source: Futurewei**

**Title: TP on Switching Period for Indevice Coexistence**

**Document for: Approval**

# Introduction

This contribution provides text proposal for the section 6 Evaluation of Indevice Coexistence in the TR 38.886 [1]. The scenario description for evaluation are described. In RAN4#94e-Bis meeting, WF on switching period in ITS band for NR V2X was agreed [2] and had the switching period and switching period position listed. Below TP is pending agreements on those details.

\*\*\*\*\*\*\*\*\*\*\*\*\* Start of the TP in sub clause 6 of TR 38.886 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

# 6 Evaluation of In-device Coexistence

## 6.2 UE architecture considerations

For in-device coexistence, the UE architecture and implementation assumptions need to be considered. For this short-term switching period analysis, intra-band operation without dual PA capability can be the baseline. It may be possible that a better switching delay performance is possible by considering separate RF chains with dual PAs. However, for this analysis the baseline performance considering single PA is considered.

## 6.3 Switching time analysis

The switching time between NR SL and LTE SL for short-term TDM operation was analyzed as part of this study. The general ON / OFF time mask requirements in subclause 6.3.3.2 in TS 38.101-1 is applicable for NR sidelink also. In addition to the above general ON / OFF time masks, the additional switching period of about 150us is applicable between the NR SL and LTE SL. Considering that the NR V2X CBW is 10/20/30/40 MHz and that of LTE V2X is 10/20MHz, the spectrum span for contiguous and non-contiguous transmissions would be similar, the switching time can be similar.

For the TDM operation of NR SL to LTE SL or LTE SL to NR SL, the switching period as well as transient periods shall be placed at the previous E-UTRA sub-frame or NR slot.

*<End of Changes>*

# References

1. TR 38.886. Title: V2X Services based on NR; User Equipment (UE) radio transmission and reception
2. R4-2005644 WF on switching period in ITS band for NR V2X, Huawei, HiSilicon, RAN4#94e-Bis, April 2020