**3GPP TSG-RAN WG4 Meeting # 104-e R4-2214353**

**Electronic Meeting, 15– 26 August 2022**

**Title:** **WF on UL Segmented Transmission for UL synchronization for IoT NTN**

**Source:** **MediaTek inc.**

**Agenda item: 13.4**

**Document for: Approval**

# Introduction

This contribution is to capture the agreements for the email discussion for UL Segmented Transmission for UL synchronization for IoT NTN (R1-2205642) in RAN4 #104-e meeting.

# Way-forward

#### Sub-topic 3-1: timing adjustment during a UL repetition period

* The following proposals are discussed in this meeting and can be further discussed.
  + Proposal 1: RAN4 shall clarify the IoT NTN behaviour in TS 36.133 for Rel-17 to allow UEs to adjust TA during the ongoing repetition.
  + Proposal 1a: The restriction on UL transmission adjustment shall be updated according to RAN1 LS on per-segment TA pre-compensation.
  + Proposal 2: RAN4 shall specify the IoT NTN behaviour in TS 36.133 to ensure the UE keeps a constant TA value within each segment
  + Proposal 3: Segmented UL transmission can be covered by NTN UE transmit timing requirements, i.e. Te\_NTN. FFS whether and how to capture in RAN4