



3GPP TSG RAN Rel-19 workshop  
Taipei, June 15 - 16, 2023

RWS-230228

Source: Apple  
Agenda Item: 5

# Views on Positioning Enhancement for Rel-19

Apple

# Rel-19 Sidelink Positioning (Unlicensed) | Study Item Proposal

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- Justification
  - **Rel-18 Sidelink on Unlicensed Spectrum:** In Rel-18, support of sidelink on unlicensed spectrum has been specified with new channel access mechanism and a physical channel design framework.
  - **Rel-18 Sidelink Positioning:** In Rel-18, support of sidelink positioning in NR systems has been specified
  - **Sidelink Positioning in Unlicensed spectrum:** This will enable positioning within the unlicensed band using the Rel-18 support as baseline.
    - NOTE: may be added to JCAS study
  
- Objectives
  - Identify specific **target performance requirements** for sidelink positioning in unlicensed spectrum if different from that of the licensed spectrum [RAN1]
  - **Physical channel design framework:** Required changes to NR SL positioning signals and procedures to operate on unlicensed spectrum [RAN1]
    - Example: Sidelink PRS signal structure to satisfy the Occupied Channel Bandwidth (OCB) requirements
  - **Channel access mechanisms:** NR SL positioning Channel access mechanisms for operation in the unlicensed channel [RAN1, RAN4]
    - Example: Update of Rel-18 SL-PRS resource allocation to sidelink unlicensed operation within the boundaries of the Rel-18 sidelink unlicensed channel access mechanism and operation



