

3GPP RAN Rel-19 Workshop

RWS-230184

June 15th-16th, 2023, Taipei, Taiwan

Agenda Item: 5

NR Sidelink Enhancements

Qualcomm Incorporated

Sidelink FR2

- Specify reference signals and procedures for beam management (BM)
 - Conclusions/agreements from Rel-18 SI form the baseline design
 - BM includes
 - initial beam pairing before and/or during link establishment
 - beam maintenance
 - beam failure recovery
 - Procedures include
 - QCL source definition and indication over SL and Uu
 - measurements and L1/L2/L3 reporting over SL and Uu
 - techniques to limit beam management overhead
 - Support enhancements to procedure for resource selection with beam-based operation

Sidelink for IOT (eRedCap)

- Study and specify Sidelink for IoT (eRedCap), including the following aspects.
 - Gap analysis on enabling SL on eRedcap devices
 - Sidelink support with eRedCap constraints (20MHz RF BW, 10Mbps peak rate).
 - Power savings techniques: Resource pool activation/deactivation



Thank you

Follow us on: [f](#) [t](#) [in](#) [@](#)

For more information, visit us at:

www.qualcomm.com & www.qualcomm.com/blog

All data and information contained in or disclosed by this document is confidential and proprietary information of Qualcomm Technologies, Inc. and/or its affiliated companies and all rights therein are expressly reserved. By accepting this material the recipient agrees that this material and the information contained therein will not be used, copied, reproduced in whole or in part, nor its contents revealed in any manner to others without the express written permission of Qualcomm Technologies, Inc. Nothing in these materials is an offer to sell any of the components or devices referenced herein.

©2018-2021 Qualcomm Technologies, Inc. and/or its affiliated companies. All Rights Reserved.

Qualcomm is a trademark of Qualcomm Incorporated, registered in the United States and other countries. Other products and brand names may be trademarks or registered trademarks of their respective owners.

References in this presentation to "Qualcomm" may mean Qualcomm Incorporated, Qualcomm Technologies, Inc., and/or other subsidiaries or business units within the Qualcomm corporate structure, as applicable. Qualcomm Incorporated includes our licensing business, QTL, and the vast majority of our patent portfolio. Qualcomm Technologies, Inc., a subsidiary of Qualcomm Incorporated, operates, along with its subsidiaries, substantially all of our engineering, research and development functions, and substantially all of our products and services businesses, including our QCT semiconductor business.