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Agenda Item 9.10

Way Forward on Lower UE capabilities in Rel-16

Acer, Apple, AT&T, CEWiT, China Mobile, China Telecom, China Unicom, Dish, Fujitsu, Google, IITH, IITM, Kyocera, Lenovo, LG Electronics, Mitsubishi Electric, Motorola Mobility, OnePlus, Oppo, Panasonic, Qualcomm, Reliance Jio, Samsung, Sharp, Sierra Wireless, SoftBank, Tejas Networks, T-Mobile USA, TCL, Vivo, Xiaomi, ZTE

Proposal

- Enable both the following in the Rel-16 NR specifications
 - (a) For FR1, allow UEs to support a bandwidth of 50 MHz for bands that mandate 100 MHz
 - (b) For Band n40 allow UEs to support 2 Rx for NR
- Add mechanism to enable the following:
 1. Access restriction mechanism, which allows the network to indicate whether it can accept lower capability UEs or not.
 - a. Lack of signaling means the UEs are not allowed to connect
 2. The lowest allowed maximum data rate using the smallest scaling factors and reference modulation order in Rel-16 is not be lower than in Rel-15.
 3. Endorse the use of the maximum data rate determined according to 4.1.2 in 38.306 to label the different tiers of UEs to make the subscribers aware of the capabilities of UEs.



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