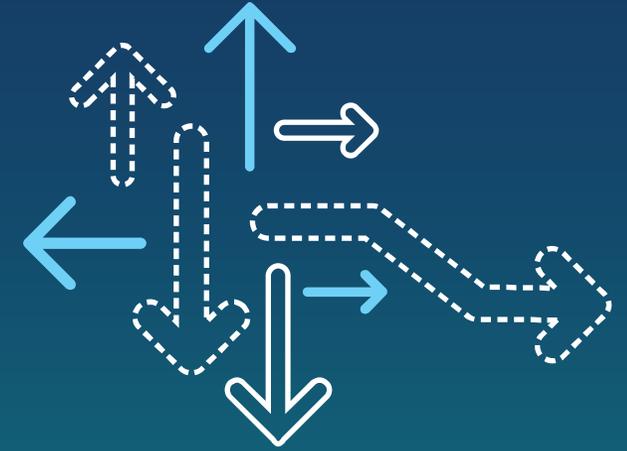


3GPP RAN #79
March 19 - 22, 2018
Chennai, India
Agenda Item 9.5

RP-180217



NR UE Features and Capabilities

Qualcomm Incorporated

Background

- RAN1 has spent about 50 hours on stabilizing the RAN1 feature list description in all groups:
 - 0. Waveform, modulation, subcarrier spacings, and CP
 - 1. Initial access and mobility
 - 2. MIMO, beam management
 - 3. DL control channel and procedure
 - 4. UL control channel and procedure
 - 5. Scheduling/HARQ operation
 - 6. CA/DC, BWP, SUL
 - 7. Channel coding
 - 8. UL TPC
- There were extensive discussions on basic features and features required for initial access as well as forward compatibility
 - The required features were marked as mandatory without capability signaling

Background

- For many of the remaining items, optional/mandatory have not been decided
 - For these, a decision should be made between
 - Optional
 - Mandatory with capability signaling
- These could be discussed at the Plenary or at the next WG meetings

Proposal 1

- No extensive discussion is necessary at the Plenary on the remaining features
- RAN Plenary should ask RAN2 to include capability signaling for all the undecided features
- In the upcoming WG meetings, further discussion can take place on selecting among
 - Optional
 - Mandatory with capability signaling
- Features still undecided after the upcoming WG meetings should be Optional

Background

- RAN2 has asked RAN1 to categorize physical layer features as Type 1, 2, 3, 4
- It was not clarified which of the following options would apply to Type 3, for example:
 - Capability signaling per band per band combination
 - Capability signaling per band combination
 - Other

Proposal 2

- Unless otherwise indicated in the RAN1 feature list, apply the following assumption for signaling:
 - Type 3 means ‘per band per band combination’