3GPP TSG RAN Meeting #89e
Electronic Meeting, September 14 - 18, 2020

RP-201627

Views on Rel-17 RAN4 non-spectrum items

—China Mobile

Principles of R17 RAN4 package

R^3 Reserving Resources for urgent Requirements

E^3 Essential and Effective Enhancements and leftovers

C^3 Technologies to meet Clear and Concrete Commercial applications

RAN4 R17 package list from CMCC perspective

C3	
Air-To-Ground (ATG)	A separate WI for ATG is desirable considering the different BS and UE type, spectrum and co-existence are all differ very significantly.
FR1 HST	Enhancement on FR1 HST, including carrier aggregation, CSI-RS based mobility, enhanced transmission scheme and enhancement for train mounted UE
Tx switching between 2Tx and 2Tx	UL Tx switching between 2Tx and 2Tx should be specified for FDD+TDD CA, TDD+TDD CA and SUL
Efficient utilization of spectrum	Target to develop a future-proof generic solution to fully utilize the available spectrum for operators
DL 1024 QAM	Minimize RAN1/2 work should be considered
Smart repeaters	The smart repeater should be designed considering low-cost and avoid complex functions
SISO OTA	Both test methodology and requirements should be studied, and ensure that the requirements are reasonable and acceptable to operators.

RAN4 R17 package list from CMCC perspective

E3	
2Tx RF requirement and testing enhancement	MPR enhancement for PC3 TDD intra-band UL CA, enhanced RF requirements for UL-MIMO and 2Tx RF measurement for UL CA and EN-DC
HPUE for TDD intra-band contiguous CA	26dBm HPUE RF requirements for TDD intra-band contiguous CA and MPR improvement
RRM enhancement	Effective RRM enhancement including RLM, SRS antenna switching, inter-RAT measurement without gaps, PUCCH Scell activation/deactivation amd HO with PSCell
Gap enhancement	Effective Gap enhancement including NCSG, Multiple concurrent and independent MG patterns, Pre-configured MG pattern(s) per configured BWP
CSI-RS L3 measurement enhancement	Support more scenarios considering the BW of CSI-RS resources and UE active BWP; Support enhanced mechanism including CMTC, synchronization assumption and dedicated CSI-RS measurement engine
Demodulation enhancement	Prioritizations among multiple advanced receivers need to be considered.