

3GPP TSG RAN WG1 Meeting #85
Nanjing, China, 23rd - 27th May 2016
Agenda item: 7.1.6

R1-165642

WF on Beamformed CSI-RS

Huawei, HiSilicon, CATT, ...

Background

- Until RAN1#85, down-selection/merge the following alternatives for reducing the overhead for beamformed CSI-RS, considering overhead reduction, performance, backward compatibility, UE implementation complexity:
 - Alt.1: Aperiodic CSI-RS
 - E.g., One-shot CSI-RS transmission with transmission on the same subframe as triggering subframe
 - Alt.2: Dynamic CSI-RS activation and/or deactivation
 - E.g., One-shot or multi-shot CSI-RS transmission after the triggering subframe
 - Alt.3: Reduced frequency density via decimation over part or all of the bandwidth
 - Alt.4: MR with dynamic sharing of the beams on CSI-RS resources among the UEs
 - Alt.5: Triggered measurement of one of multiple CSI-RS configurations
 - Alt.6: Spatially multiplexed beamformed CSI-RS
 - Other approaches are not precluded

Proposal

- Specify dynamic triggering of CSI-RS transmission on time domain including:
 - At least Alt.1: At least single shot Aperiodic CSI-RS
 - CSI request in UL grant is reused for indication of A-CSI-RS
 - FFS: multi-shot CSI-RS transmission once triggered
 - FFS: signalling for resource allocation
 - FFS: The combination with other alternatives (e.g. Alt3, Alt.4).
- Specify dynamic PDSCH rate matching indication
 - Enhanced TM(s) is FFS