**Discussion on RRC parameters for Rel-17 mTRP BM**

Please share your comments on the RRC parameters for Rel-17 mTRP BM in the following table. The initial list of parameters for discussion can be found in

<https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_106-e/Inbox/drafts/8.1.2.3/RRC>

**Table 1. Comments on initial version of RRC parameters for Rel-17 mTRP BM**

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| **Company** | **Comments** |
| Apple | * beamFailureDetectionResourceList1, beamFailureDetectionResourceList2: According to the discussion in last meeting, we have not decided whether to use RRC or MAC CE to configure BFD RS.
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| OPPO | 1. Share the same understanding as Apple, the method for explicit BFD RS is not decided yet. Therefore, we should not include the RRC parameters “beamFailureDetectionResourceList1” and “beamFailureDetectionResourceList2” now.
2. Regarding the RRC parameter for SR request of mTRP BFR: the description is kind of misleading. That SR configuration is used for mTRP BFR, but it might not dedicated for mTRP BFR only. Second comment is that we agreed that we can configure 2 PUCCH-SR for mTRP BFR. One understanding for that is two SR configurations would be configured for mTRP BFR since according to the RAN2 specification, one SR configuration can be associated with up to one PUCCH resource in one BWP. So suggest to update the RRC description as follows:

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| --- | --- | --- | --- |
| schedulingRequestIDForMTRPBFR | new R17 | ~~dedicated~~ schedule request configuration(s) for MTRP BFR. | One SchedulingRequestId or two SchedulingRequestIds |

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| ZTE | Firstly, we share the same views with Apple and OPPO that we should not include the RRC parameters “beamFailureDetectionResourceList1” and “beamFailureDetectionResourceList2”. Then, ‘resourcesForChannelMeasurement2’ is a little bit confusing, and seems to add another ‘resourcesForChannelMeasurement’ in CSI-ReportConfig as a new CSI resource setting. It so, it is not aligned with already agreement. In our views, we do not need to introduce any new RRC parameters for periodic and semi-persistent RSs for group based reporting due to the fact that from signaling perspective, we have already supported more than one RS set in a setting as follows.CSI-ResourceConfig ::= SEQUENCE { csi-ResourceConfigId CSI-ResourceConfigId, csi-RS-ResourceSetList CHOICE { nzp-CSI-RS-SSB SEQUENCE { nzp-CSI-RS-ResourceSetList SEQUENCE (SIZE (1..maxNrofNZP-CSI-RS-ResourceSetsPerConfig)) OF NZP-CSI-RS-ResourceSetId OPTIONAL, -- Need R csi-SSB-ResourceSetList SEQUENCE (SIZE (1..maxNrofCSI-SSB-ResourceSetsPerConfig)) OF CSI-SSB-ResourceSetId OPTIONAL -- Need R }, csi-IM-ResourceSetList SEQUENCE (SIZE (1..maxNrofCSI-IM-ResourceSetsPerConfig)) OF CSI-IM-ResourceSetId },  bwp-Id BWP-Id, resourceType ENUMERATED { aperiodic, semiPersistent, periodic }, ...}Considering that maxNrofNZP-CSI-RS-ResourceSetsPerConfig = 16 and maxNrofCSI-SSB-ResourceSetsPerConfig =1, we only need to raise the upper bound for CSI-RS resource set in 38.214 (FYI, ‘For periodic and semi-persistent CSI Resource Settings, the number of CSI-RS Resource Sets configured is limited to S=1.’ in TS 38.214 Section 5.2.1.2) and change ‘maxNrofCSI-SSB-ResourceSetsPerConfig’ to 2. Alternatively, we can add ‘nzp-CSI-RS-SSB2’ in CSI-ResourceConfig. |
| Mod | @All: based on comments from Apple, OPPO and ZTE, the list is updated in v01 for further discussion. In the updated list:* As suggested by Apple, OPPO and ZTE, “beamFailureDetectionResourceList1” and “beamFailureDetectionResourceList2” are removed from the list.
* Regarding the second comment from OPPO, the parameter is updated accordingly.
* “ResourcesForChannelMeasurement2” is also removed from the list according to ZTE’s comment.
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| Qualcomm | For the two TRP specific candidate beam thresholds below, suggest to have a common threshold for both TRPs. We didn’t see the use case for different quality thresholds. Also, suggest to remove “SSB” from the threshold name, i.e. define a single rsrp-ThresholdBFR-r17 for both TRPs. Because rsrp-ThresholdSSB in R15 is for PCell CFRA based BFR, while candidate beam for mTRP BFR is reported in MAC-CE similar to SCell BFR in R16, which uses rsrp-ThresholdBFR-r16.rsrp-ThresholdSSBBFR1rsrp-ThresholdSSBBFR2 |
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