Companies are to share their inputs on the excel spreadsheet in /tsg\_ran/WG1\_RL1/TSGR1\_106b-e/Inbox/drafts/8.1.2.3/RRC parameters/ herein.

## Inputs on version 00

Please share your inputs, if any, in the following table

Table 1 Inputs: Initial version

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| --- | --- |
| **Company** | **Input** |
| Qualcomm | For the row “new beam identification threshold for TRP 2”, suggest to add the following FFS. The use case for separate thresholds is unclear.  FFS: whether this parameter can reuse “new beam identification threshold for TRP 1”, i.e. same threshold for both TRPs  For the row #8 and 9, suggest to add PCI field to indicate SSB is from which cell.  resource list (including periodic CSI-RS resource configuration indexes and/or SS/PBCH block indexes and corresponding PCI if different from serving cell PCI) for M-TRP new beam identification set 1 |
| MediaTek | Regarding row #5 and #6, we share similar view with QC that one threshold for both TRPs should be sufficient.  According to preivoius agreements, we may also need to add one more resource set list for the 2nd CMR set for P/SP resource setting, e.g., *csi-RS-ResourceSetList2.*  **Agreement from RAN1#106**  For aperiodic report of beam reporting option 2,   * When associated with aperiodic resource setting, extend the existing RRC parameter *CSI-AssociatedReportConfigInfo* to be configured with two CMR resource sets where each may be configured with their corresponding QCL information.   + FFS: Detailed association scheme * When associated with periodic/semi-persist resource setting, the resource setting comprises two CMR resource sets.   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 },  ...  } |
| OPPO | A new IE shall be added to indicate the configuration of per-TRP BFR on one BWP, similar to the “*BeamFailureRecoverySCellConfig-r16*” for SCell BFR in rel16 |
| Lenovo/MotM | For row #5 and row #6, we share same view with QC that one threshold for both TRPs is sufficient. If different thresholds for different TRPs is supported, then an agreement related to this should be made first. However, there is no such agreement yet. |
| ZTE | Regarding QC’s comment, we do not have strong preference, and separate or common threshold may not be a serious issue.  Regarding issue raised by MTK, 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, i.e., to change ‘*maxNrofCSI-SSB-ResourceSetsPerConfig*’ to 2.   * Note: 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.   For moving forward this issue, we slightly prefer to capture this suggestion in the RRC list as what we do for Item-8.1.1 multi-beam operation.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | maxNrofCSI-SSB-ResourceSetsPerConfig | existing |  | Maximum number of CSI-SSB-Resouce set per CSI-ResourceConfig | {1} is replaced by {2} | |
| NTT DOCOMO | For row #5 and row #6, we also think one threshold for two TRPs is sufficient.  For row #8 and 9, we need to discuss and agree whether to support SSB associated with a different PCI from serving cell PCI can be configured as BFD-RS and NBI-RS.  For the issue mentioned by MTK/ZTE, we agree with ZTE to change ‘*maxNrofCSI-SSB-ResourceSetsPerConfig*’ to 2. In addition, we should also clarify ‘*maxNrofNZP-CSI-RS-ResourceSetsPerConfig*’ to be 2 for periodic/semi-persist resource setting (which is 1 in Rel-16). |
| vivo | Regarding “candidateBeamResourceList1” and “candidateBeamResourceList2”, it is not necessary to be mandatorily configured when M-TRP BFR is configured. From the perspective of system overhead, optional configuration is better. Therefore, we suggest changing “mandatorily” to “optionally” in the part of the comment.  Regarding the issue raised by MTK, we share the similar view with ZTE that raising the upper bound for CSI-RS resource set in 38.214, i.e., to change ‘maxNrofCSI-SSB-ResourceSetsPerConfig’ to 2 is enough, no need to introduce a new parameter.  Besides RRC parameters listed in the table, some other RRC parameters about TRP-specific beam failure detection also should be considered, e.g., beamFailureInstanceMaxCount-1, beamFailureInstanceMaxCount-2, and beamFailureDetectionTimer-1, beamFailureDetectionTimer-2. |
| Mod | Based on the discussion above, the table of RRC parameters is updated in V01. To be specific,   * Row 6 is deleted and row 5 is revised, so that one threshold can be configured for two TRPs. * Regarding the issue raised by MTK, the table is updated according to ZTE’s suggestion.   @QC: for row 8 and 9, further discussion seems to be needed regarding whether the SSB associated with a PCI different from serving cell PCI can be configured as a new beam.  @vivo: to our understanding, 2 NBI-RS sets should be configured to support TRP-specific BFR. We have agreed to support TRP-specific BFD counter and timer in the MAC procedure. It doesn’t necessarily mean that an additional set of beamFailureInstanceMaxCount and beamFailureDetectionTimer is needed.  @OPPO: configuration of per-TRP BFR can be indicated by the presence of 2 BFD-RS/NBI-RS sets. |
| Convida | For row #5 and #6, one threshold should be sufficient, since we haven’t agreed to introduce a 2nd threshold. For row #5, “new” may be changed to “up to RAN2”, since it’s up to RAN2 if they reuse the existing parameter for threshold.  For row #8, “new” may be changed to “up to RAN2”, since it’s up to RAN2 if they reuse the first CB RS list.  For row#9 and #9, we also think they should be mandatorily configured with at least one resource, if M-TRP BFR is configured.  For explicitly configured BFD-RS sets, at least a second list seems to be needed:  *failureDetectionResourcesToAddModList2*  *failureDetectionResourcesToReleaseList2*  RAN2 may decide if they want to reuse the existing list for the first explicit BFD-RS set.  Regarding *beamFailureInstanceMaxCount* and *beamFailureDetectionTimer*, there seems to be no need to introduce new parameters.  Agree with FL that per-TRP BFR can be indicated by the presence of 2 BFD-RS/NBI-RS sets. |
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## Inputs on version xx

Please share your inputs, if any, in the following table

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