**Proposed conclusion 2.E:** On Rel-17 enhancements for inter-cell beam management and inter-cell mTRP, in Rel-17, there is no consensus that the agreed L1-RSRP measurement/reporting also includes group-based beam report for inter-cell mTRP

**Proposed conclusion 2.D**: On Rel-17 enhancements for inter-cell beam management and inter-cell mTRP, in Rel-17, on the UE behavior when there is overlap for L1-RSRP measurement for SSB associated with serving cell PCI and PCIs different from the serving cell PCI, there is no consensus on if/how it impacts RAN1 specification

* Prepare an LS to RAN4 informing such conclusion and recommending RAN4 to investigate the issue
* Note: Discussion in UE feature agenda on this issue is not ruled out

{Moderator note: Requesting Peng (vivo) to lead the discussion on drafting the LS to RAN4}

**Proposal 1.G**: Refine the following agreement as follows:

**Agreement**

On Rel-17 unified TCI framework, for intra-cell beam management, after X symbols from the UE receives the BFRR from NW, the UE assumes the same QCL parameter as the ones associated with the index qnew for all PDSCH/PDCCH receptions in a CC ~~[~~or failed CC(s) in a set of configured CCs with common TCI state ID activation and update~~]~~, as well as other signals/channels configured to sharing the same indicated Rel-17 TCI state as PDSCH/PDCCH reception.

* The above applies to Rel-15 SpCell BFR, ~~[~~Rel-16 CBRA based SpCell BFR,~~]~~ and Rel-16 SCell BFR
* Note: qnew $q\_{new}$is a candidate beam identified by the UE in set q1. q1 is the set of candidate beams

**Proposal 1.H**: Refine the following agreement as follows:

**Agreement**

On Rel-17 unified TCI framework, ~~[at least when the UE is configured with joint DL/UL TCI]~~, after X symbols from the UE receives the BFRR from NW, the UE uses the same UL spatial filter as the ~~[~~one associated with the index qnew or the last PRACH transmission~~]~~ for all PUSCH transmissions and all of PUCCH resources in a CC ~~[~~or failed CC(s) in a set of configured CCs with common TCI state ID activation and update~~]~~, as well as other signals/channels configured to sharing the same indicated Rel-17 TCI state as PUSCH and all of PUCCH resources.

* The above applies to Rel-15/16 SpCell BFR, ~~[~~Rel-16 CBRA based SpCell BFR,~~]~~ and Rel-16 SCell BFR
* Note:$q\_{new}$ qnew is a candidate beam identified by the UE in set q1. q1 is the set of candidate beams
* ~~FFS (RAN1#107-e): if the above also applies when the UE is configured with separate DL/UL TCI~~
* FFS: UL PC control including qu, qd, and closed loop index

|  |  |  |
| --- | --- | --- |
| 1.4 | **Agreement**On Rel-17 unified TCI framework, for intra-cell beam management, after X symbols from the UE receives the BFRR from NW, the UE assumes the same QCL parameter as the ones associated with the index qnew for all PDSCH/PDCCH receptions in a CC [or [failed CC(s)] in a set of configured CCs with common TCI state ID activation and update], as well as other signals/channels configured to sharing the same indicated Rel-17 TCI state as PDSCH/PDCCH reception.* The above applies to Rel-15 SpCell BFR, [Rel-16 CBRA based SpCell BFR,] and Rel-16 SCell BFR
* Note: qnew $q\_{new}$is a candidate beam identified by the UE in set q1. q1 is the set of candidate beams

Additional suggestions:* (Apple) Add Note: q\_new only provides QCL-TypeD indication for CCs different from the failed CC
* (Samsung) revise 1st text as “Or corresponding RS in a set of configured CCs with common TCI state ID activation and update”

**FL Note**: The bracketed texts are pending. If no consensus to remove the brackets, the text will be removed.  | **1st bracketed text (CA):*** **Remove brackets:** Apple, NTT Docomo, MTK, ZTE, Samsung, Intel, Qualcomm, Xiaomi, CATT, Futurewei
* **Remove text:** OPPO

**2nd bracketed text (CBRA):*** **Remove brackets:** Apple NTT Docomo, Samsung, Intel, OPPO, Qualcomm, Xiaomi, Futurewei
* **Remove text:**
* **Keep bracket and text:** ZTE (postpone it after R15/16 BFR is stable)
 |
| 1.5 | **Agreement**On Rel-17 unified TCI framework, [at least when the UE is configured with joint DL/UL TCI], after X symbols from the UE receives the BFRR from NW, the UE uses the same UL spatial filter as the [one associated with the index qnew or the last PRACH transmission] for all PUSCH transmissions and all of PUCCH resources in a CC [or [failed CC(s)] in a set of configured CCs with common TCI state ID activation and update], as well as other signals/channels configured to sharing the same indicated Rel-17 TCI state as PUSCH and all of PUCCH resources.* The above applies to Rel-15/16 SpCell BFR, [Rel-16 CBRA based SpCell BFR,] and Rel-16 SCell BFR
* Note:$q\_{new}$ qnew is a candidate beam identified by the UE in set q1. q1 is the set of candidate beams
* FFS (RAN1#107-e): if the above also applies when the UE is configured with separate DL/UL TCI
* FFS: UL PC control including qu, qd, and closed loop index

Additional suggestions:* (Samsung) Revise 2nd text as “one associated with ~~the index q~~~~new~~ ~~or~~ the UL spatial domain filter of the last PRACH transmission associated with the index qnew”

**FL Note**: The bracketed texts are pending. **If no consensus to remove the brackets, the text will be removed.** * 1st bracketed text is to be discussed with the FFS
* 2nd bracketed text seems to depend on 1st bracketed text + 1st FFS
 | **3rd bracketed text (CA):*** **Remove brackets:** Apple, NTT Docomo, MTK, ZTE, Samsung, Intel, Qualcomm, Xiaomi, CATT, Futurewei
* **Remove text:** OPPO

**4th bracketed text (CBRA):*** **Remove brackets:** Apple, NTT Docomo, Samsung, OPPO, Qualcomm, Xiaomi, Futurewei
* **Remove text:**
* **Keep bracket and text:** ZTE (postpone it after R15/16 BFR is stable)

**Applicability (1st bracket + 1st FFS):*** **Only joint DL/UL TCI:** MTK, Samsung, Futurewei
* **Joint and separate DL/UL TCI:** Apple, NTT Docomo, ZTE, Intel, OPPO, Qualcomm, Xiaomi, CATT

**2nd bracketed text (last PRACH):*** **Remove brackets:** Apple, MTK, ZTE, Samsung (with update), OPPO, Qualcomm (but remove PRACH), Xiaomi, Futurewei
* **Remove text:** NTT Docomo
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