**Proposal 1.1**: On Rel.17 unified TCI framework:

* For joint and separate DL/UL TCI, DL large scale QCL properties are inferred from one (qcl-Type1) or two RSs (qcl-Type1 and qcl-Type2) analogous to Rel.15/16
* For joint DL/UL TCI, UL spatial filter is derived from the RS of DL QCL Type D

**Proposal 1.2**: On Rel.17 unified TCI framework, down select or modify by RAN1#104bis-e from the following alternatives:

* Alt1. A UE can be dynamically indicated with either joint DL/UL TCI or separate DL/UL TCI
  + Details on dynamic indication are FFS
  + FFS: UE capability for the support of joint DL/UL TCI and/or separate DL/UL TCI
* Alt2A. A UE can be configured with either joint DL/UL TCI or separate DL/UL TCI via RRC signaling
* Alt2B. A UE can be configured with either joint DL/UL TCI, separate DL/UL TCI, or both via RRC signaling
* Alt3. A UE can be configured with either joint DL/UL TCI or separate DL/UL TCI via MAC CE signaling
  + Details on how this is signaled in relation to TCI activation are FFS

**Proposal 1.3**: On Rel.17 unified TCI framework, decide by RAN1#104bis-e:

* Whether DL or, if applicable, joint TCI also applies to the following signals. If not, decide how the UE is provided with the information about the QCL assumptions needed for the reception of the signals:
  + CSI-RS resources for CSI
  + Some CSI-RS resources for BM, if so, which ones (e.g. aperiodic, repetition ‘ON’)
  + CSI-RS for tracking
* Whether UL or, if applicable, joint TCI also applies to the following signals
  + Some SRS resources or resource sets for BM

**Proposal 1.4**: On Rel.17 unified TCI framework:

* When a periodic DL RS used as a source RS for determining spatial TX filter is in the UL or, if applicable, joint TCI state, the periodic DL RS is the PL-RS
* When a periodic DL RS used as a source RS for determining spatial TX filter is not configured in the UL or, if applicable, joint TCI state, select one of the following alternatives by RAN1#104bis-e:
  + Alt1A. PL-RS is always included in UL TCI state or (if applicable) joint TCI state
  + Alt1B. PL-RS can be included in UL TCI state or (if applicable) joint TCI state
  + Alt2. PL-RS can be associated with (but not included in) UL TCI state or (if applicable) joint TCI state
  + Alt3. Reuse Rel.16 procedure (via MAC CE + DCI) to indicate PL-RS for UL transmission

**Proposal 1.5**: On the setting of UL PC parameters except for PL-RS (P0, alpha, closed loop index) for Rel.17 unified TCI framework:

* The setting of (P0, alpha, closed loop index) is at least associated with UL channel or UL RS
* Select one of the following alternatives by RAN1#104bis-e for PUCCH, PUSCH, and SRS separately:
  + Alt1. The setting of (P0, alpha, closed loop index) is also associated with UL or (if applicable) joint TCI state
  + Alt2. The setting of (P0, alpha, closed loop index) is included with UL or (if applicable) joint TCI state
  + Alt3. The setting of (P0, alpha, closed loop index) is neither associated with nor included in UL or (if applicable) joint TCI state
  + Alt4. The setting of (P0, alpha, closed loop index) is determined as in Rel-16 without enhancement

**Conclusion 2.1**: On the Rel.17 support for L1/L2-centric inter-cell mobility, no further discussion in RAN1 related to applicable scenarios.

**Proposal 2.2**: On Rel.17 multi beam measurement/reporting enhancements:

* A quality of up to K beams associated at least with non-serving cell(s) can be reported in a single CSI reporting instance
  + For each beam, the UE can report at least: (1) a Measured RS Indicator, and (2) a Beam Metric associated with the Measured RS Indicator
  + FFS: Maximum value of K
  + FFS: If K is fixed, configured, reported by UE capability, or dynamically selected
  + FFS: The type of beam metric (e.g. L1-RSRP, L3-RSRP, or hybrid L1/L3-RSRP) and related measurement behavior
  + FFS: Whether or not beam reporting associated with non-serving cell(s) can be mixed with that with serving-cell in one reporting instance

**Proposal 3.1**: On the beam application time for Rel.17 DCI-based beam indication, the beam application time can be configured by the gNB based on UE capability

* Support a UE capability for the minimum value of beam application time
* FFS: the exact minimum values of beam application time supported by UE
* FFS: whether existing UE capability can be reused as this UE capability.
* FFS: whether different beam application time values are supported for uplink and downlink
* FFS: whether UE capability needs to be introduced for the maximum value of beam application time
* FFS: the reference for defining the UE capability (e.g. from DCI reception or ACK transmission)
* FFS: whether a UE is allowed to report more than 1 values in case of MPUE
* FFS: the application time when DCI and applied channel(s) are on different CCs with same/different SCS(s)s

**Conclusion 4.1**: On Rel.17 enhancements to facilitate UL beam selection for MP-UE, the following terms are used at least for the purpose of discussion:

* ‘Panel activation’ (at least for DL/UL measurement): activating L out of P available UE panel(s) at least for the purpose of DL and UL beam measurements (e.g. reception of DL measurement RS, transmission of SRS)
* ‘Panel selection’ (for UL transmission): selecting 1 out of L activated UE panel(s) for the purpose of UL transmission
* Note: UE-initiated panel activation and selection have been agreed in RAN1#103-e

**Proposal 5.1**: On Rel.17 enhancements to facilitate MPE mitigation,

* On further enhancing the P-MPR report in Rel.16 (already agreed RAN4 framework, including triggering), down select between beam-level and panel-select reporting
* On SSBRI(s)/CRI(s) and/or indication of panel selection for the purpose of indicating, focus study on the following:
  + Reporting of at least SSBRI(s)/CRI(s) to indicate gNB beam(s) that is feasible for UL transmission: additional reporting quantities are FFS
  + Reporting of at least an indicator associated with a UE ‘panel’ that is feasible for UL transmission: additional reporting quantities are FFS
* Note: Just as agreed in RAN1#103-e, the purpose is to assess whether specification is needed or not