Executive Summary of RP-211653

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If mobility enhancement is introduced in R18, the following conclusions should be followed as guidance for further discussion and consolidation of the scope

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- Conclusion 1: RAN2 is the leading WG for mobility enhancement in Rel-18, while RAN1, RAN3 and RAN4 are impacted WGs.
- Conclusion 2: L1/L2 inter-cell mobility got very wide support and should be specified in Rel-18 with the following high-level objectives:
  - To specify mechanism and procedures of L1/L2 based inter-cell mobility
    - Configuration and maintenance for multiple candidate cells [RAN2, RAN3];
    - Dynamic switch mechanism among candidate serving cells for the potential applicable scenarios [RAN2, RAN1];
    - L1 enhancements, including inter-cell/mTRP beam management, L1 measurement and reporting, beam indication and timing management (if needed, as a second priority) [RAN1, RAN2, RAN4];

- NOTE: FR2 specific enhancements are not precluded, if any.
- NOTE: the procedure of L1/L2 based inter-cell mobility are applicable to the following scenarios:
  - Prioritized scenarios:
    - Standalone, CA
    - Intra-DU case and intra-CU inter-DU case
    - Both intra-frequency and inter-frequency (can be revisited)
    - FR1 and FR2
- Second-priority scenarios only if time is allowed (can be revisited once the scenarios are clearly described): MR-DC

- Conclusion 3: DAPS for FR2-FR2 is assumed to be specified in Rel-18, and the major impact is in RAN4. So the final decision is left to RAN4.
- Conclusion 4: As the baseline, CHO+MRDC and DAPS+CA/DC will be considered in Rel-18. Other items (i.e., DAPS+CHO/CPAC ,CHO + CPC) will be further discussed online. The following description can be used as the baseline for further discussion on the scoping of objective on DAPS/CHO enhancements:
  - To specify mechanism and procedures for CHO enhancements in MR-DC scenario
    - Procedure and configuration of CHO in MR-DC scenario [RAN2, RAN3];
  - To specify mechanism and procedures for DAPS operation for CA/DC
    - Support simultaneous configuration and procedures of DAPS and CA/DC [RAN2, RAN4]

Thank you