3GPP TSG RAN meeting #103
Maastricht, Netherlands, March 18-21, 2024

RP-240333

Agenda Item: 9.1.4.4

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Views on RRM Topics for Release 19

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Summary

- Rel-19 RRM Related Proposals with high priority
- Views on other Rel-19 RRM proposals
- AI/ML Based Enhancements

Rel-19 Priorities for RRM Topics

Motivation and Objectives

- Fast SCell activation with EMR
  - SCell activation delay is the major obstacle to improve CA usage
  - Relatively simple enhancement by reusing the Early Measurement Reporting framework
- HO with PSCell
  - RAN4 defined requirements for most scenarios, however, not all scenarios are already defined
  - NR SA to NR DC is one scenario which is likely to be deployed
  - RAN4 should define requirements for this scenario
- RLM/BFD relaxed requirements for RedCap UEs
  - RLM/BFD relaxations do not apply to RedCap UEs
  - These relaxations should also be applied to RedCap UEs to enable power savings
  - Applying these relaxations to RedCap UEs is expected to be straightforward, only a small amount of work is needed

Other RRM Topics for Rel-19

Objectives

- FR2 measurement delay reduction for L3/L1 measurements
  - Proposed by multiple companies, so far no concrete data showing what problem needs to be solved
  - Current requirements were agreed in Rel-15 based on some system level studies and taking into account implementation flexibility
    - UEs with better spherical coverage (more antenna panels) need to use a higher beam sweeping factor to cover more angles
    - Reducing the beam sweeping factors could negatively affect UEs with better spherical coverage
  - Scope should be limited to straightforward enhancements such as reduce the measurement delay scaling when UE is configured with CA or concurrent use of multiple antenna panels (multi Rx)
  - We should avoid a long study (e.g. mobility/beam management system simulations) which is unlikely to lead to meaningful results

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Thank you

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