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3GPP TSG RAN #102 RP-233069

Edinburgh, Scotland, December 11-15, 2023

Agenda Item: 9.3.2.1

Source: vivo

Title: EMR and additional measurement enhancement in R18

Document for: Discussion and Decision

eEMR and enhancement measurement in RAN4 and RAN2

There are one bullet in R18 mobility for eEMR and enhancement measurement for Fast Scell/SCG setup

7. To study and specify how to reuse the IDLE/INACTIVE mode measurement results which are to be reported during and/or after RRC connection setup/resume in order to improve SCell/SCG setup delay [RAN4, RAN2], including:
   - Availability and validation of the IDLE/INACTIVE mode measurement results to be reported [RAN4]; and
   - Definition of corresponding RRM requirements [RAN4]; and
   - If necessary based on RAN4 outcome, definition of corresponding signalling support [RAN2].

Note 5: RAN4 will coordinate in due course with RAN2 to start the work.
Note 6: R4-2220415 serves as baseline for future work in RAN4
Note 7: With exception of the above scenarios, enhancements on IDLE/INACTIVE mode measurements and on UE behavior in IDLE/INACTIVE mode are not in scope.

RAN4 CR was endorsed already in R4-2321635

Introduction of Improvement on SCell/SCG setup delay on 38.133

Decision: **Revised to R4-2321635 (from R4-2321395).**

R4-2321635 **draftCR for 38.133 on Improvement on SCell/SCG setup delay**

Type: draftCR For: Endorsement
38.133 v18.3.0 CR- rev Cat: B (Rel-18)

Source: Nokia, Nokia Shanghai Bell

Abstract:

Introduction of Improvement on SCell/SCG setup delay on 38.133

Decision: **Endorsed.**

RAN2 CR was not agreed due to late information from RAN4:

⇒ **Conclusion: RAN2 cannot conclude the eEMR "enhanced measurements" either at current meeting, too many open points, (and late info from RAN4)**

Observation: RAN2 did not complete procedure design due to late inputs from RAN4 and some points have to be clarified based on previous LS from RAN4.

Complete the Work in RAN2 and RAN4

Work understanding in RAN2:

- We see three types of enhanced idle measurement for fast Scell/SCG setup in R18
  - Measurement 1: R16 EMR with X value verification
  - Measurement 2: Existing cell selection/reselection measurement
  - Measurement 3: Additional measurement (Start on paging and continue during RRC setup)
- R16 EMR procedure is good start point and can be almost reused for all three types of enhancement idle measurement

Proposal : Give one more quarter expectation to complete the below work

- Specify the signaling to support below three types enhanced idle measurement for fast Scell/SCG based on R16 EMR **[RAN2]**
  - Measurement 1: R16 EMR with X value verification
  - Measurement 2: Existing cell selection/reselection measurement
  - Measurement 3: Additional measurement (Start on paging and continue during RRC setup)

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THANK YOU.
谢谢。