

Agenda Item :  
Source : Nokia, Qualcomm  
Title : Draft Liaison statement to RAN WG2 and WG4 on Measurements  
To : RAN WG2, RAN WG4  
Document for : Approval

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RAN WG1 would like to inform RAN WG2 and RAN WG4 about the status of measurements in UTRA/FDD specifications (Former 25.231, now split to 25.215 for FDD and 25.225 for TDD) and ask the opinion of WG2 and WG4 in some measurement related questions, which were raised during the WG1 Ad Hoc 16 meeting.

## **SIR measurements by UE**

Earlier WG1 reviewed the measurements in (WG2 spec) and in the earlier liaison statement to WG2 informed that SIR and ISCP measurements were not agreed to be done from the CPICH for the cells to be measured for handover, cell selection or re-selection purposes. The discussion on the use of SIR (and ISCP) measurements continued in WG1 No. 7. In tdoc R1-99b23 the SIR (=RSCP/ISCP) on the CPICH was suggested to be added to the TS 25.231. However, WG1 did not agree the inclusion of the SIR measurement on the CPICH in 25.231.

The views of the need, complexity and accuracy of this SIR measurement quantity differed. Some parties expressed the view that there would be no additional complexity by allowing SIR measurements on the CPICH, since that functionality shall be provided anyway for the dedicated channels. On the other hand, the accuracy of the SIR on the CPICH measurement for handover, cell selection and reselection purposes was doubted by some parties to be good enough with reasonable complexity. It was indicated by some parties that this kind of SIR measurement could be necessary for some other purposes, however this has not been proposed in any of the contributions in WG1 so far.

WG1 would like WG2 to reconsider the inclusion of the SIR measurement from CPICH in their specification (or provide justification for the inclusion of it) and whether it would be sufficient to report the SIR from the dedicated channel in order to get orthogonality information of the cells.

WG4 is invited to comment on the related complexity aspects.

## **BLER and BER measurements by UE and UTRAN**

As use of BLER and BER measurements were discussed, and it was commented that especially BER evaluation before channel coding would be useful with the outer loop power control (SIR threshold setting) especially with low bit error rates.

WG1 agreed on the inclusions of the measurement quantities in 25.231 but some concerns were expressed on the complexity of the mentioned measurements if the accuracy requirement is very high. WG1 agreed to include the quantities with the understanding that this would not result to unreasonable complexity. WG1 would like to receive comments from WG4 in the expected accuracy of the measurements. The view in WG1 is that resulting complexity needs to be taken into account when defining the accuracy.

## **UE TX power by UE**

The UE Tx power measurement was also included in 25.231 and WG1 would like WG4 to take the resulting complexity into account when defining the accuracy requirements for this measurement. Similar the understanding of WG1 was that this measurement was included, like BLER and BER, under the condition that this does not cause too much complexity in the UE. Would there be big concerns on the resulting complexity

with such an accuracy that is needed for practical use of those measurements, the inclusions of these quantities should be revisited by WG1.