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3GPP RAN WG4
Ad Hoc on Radio Resource Management
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Liaison Statement on measurement accuracy

From: RAN WG4 Ad Hoc on Radio Resource Management
To: RAN WG1
Copy: RAN WG4, RAN WG2

RAN WG4 has started its study on the accuracy for the measurements related to RRM. In order to set the accuracy RAN WG4 needs to address two aspects.

The first is related to what is feasible from an implementation perspective, and good progress has been made in this area.

The second is to verify what is required from a system performance perspective. To do this, RAN WG4 needs to understand what the measurements are used for. This information could not be found in WG1 documentation and is requested by WG4 Ad Hoc for all measurements.

RAN WG4 Ad Hoc invites RAN WG1 to provide this information to RAN WG4, so that WG4 can finalise the specification for the measurement accuracy.

One specific UTRAN measurement for FDD where WG4 has concerns is “Transmitted Carrier Power“. It is believed that the purpose of this measurement is estimation of the downlink load. The problem is that absolute power levels are difficult to measure with high accuracy, +/-3 dB has been stated as reasonable. Another definition proposed in WG4 is *the transmitted carrier power relative to maximum power, expressed as a percentage number (linear scale)*. Such a measurement can be made with much better accuracy and is also more representative of the load. It is also noted that the accuracy is better expressed in a linear scale.

RAN WG4 Ad Hoc asks RAN WG1 to consider this proposed new definition of the “Transmitted Carrier Power”.