TSG-RAN Working Group 1 meeting#18   *TSGR1(01)0120*

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Agenda Item: AH21
Source: CWTS/CATT
To: TSG RAN WG1
Title: Beamforming for 1.28Mcps TDD
Document for: Discussion and Approval

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1 Summary

The 1.28Mcps TDD is mainly based on the smart antenna technology. It is described as a preferred approach to beam forming, other high performance techniques may also be applicable.

When DL beamforming is used, at least that user to which beamforming is applied and which has a dedicated channel shall get one individual midamble according to midamble generation.

In smart antenna system, the BTS need receive the uplink data first, then decide the UE's position, and then beamform to UE in Downlink, but the UE does not need to transmit regularly for the Node B to determine the antenna weights when it is in idle mode.

2 Proposal
It is proposed to add following paragraphs in the working CR for TS25.221 as the description of the beamforming for 1.28Mcps TDD.

----------------------------------- Changes to working CR of 25.221 begin ------------------------------

6.2.4 Beamforming

When DL beamforming is used, at least that user to which beamforming is applied and which has a dedicated channel shall get one individual midamble according to subclause 6.2.3, even in DL.

----------------------------------- Changes to working CR of 25.221 end ------------------------------