TSG-RAN Working Group 1, Adhoc 21 **TSGR1(00)0821**

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Agenda Item: AH21
Source: CWTS
To: TSG RAN WG1
Title: Beacon function of physical channel
Document for: Discussion and Approval

Introduction

This paper describes the beacon function of physical channel in low chip rate TDD.

Conclusion

It's proposed to discuss and include the following text proposal into the TR25.928.

---------- changes to TR25.928 begin ----------

[Description:]

For the purpose of measurements, a beacon function shall be provided by particular physical channels. Considering about the physical character requirement of the beacon function, DwPTS and P-CCPCH in low chip rate TDD satisfy this requirement.

[Rationale:]

7.2.4 Beacon function of physical channels

For the purpose of measurements, a beacon function is provided by the P-CCPCH and the DwPTS.

7.2.4.1 Location of physical channels with beacon function

The DwPTS and the P-CCPCH provides the beacon function in low chip rate TDD.

7.2.4.2 Physical characteristics of the beacon function

The physical channels providing the beacon function:

- are transmitted with reference power;
- are transmitted without beamforming
- use midamble $m^{(1)}$ exclusively in this time slot when P-CCPCH provide the beacon function

[Explanation difference:]

In high chip rate TDD, a beacon function has to be defined for channels other than the P-CCPCH, because there are two cases of synchronisation and the possibility of multiframes for the P-CCPCH. In the low chip rate option, only the P-CCPCH and the DwPTS provide the beacon function.

---------- changes to TR25.928 end ----------