

TSG-RAN Working Group 1 (Radio) meeting #3.....#4
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Shin-Yokohama, Japan _____ (**TSGR1#4(99)457**

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Agenda Item:

Source: **ARIB, CATT, DoCoMo, Ericsson, Nokia, Panasonic, RITT, Siemens**

Title:

Introduction of the Chinese Narrowband Key Parameters and Features for UTRA-TDD Mode

Document for: **Decision [Consideration]**

Introduction

During the beginning of this year several meetings have been held on harmonisation of the Chinese TD-SCDMA and UTRA TDD. ~~On the 14 Apr 99~~ The 3rd TDD Harmonisation Meeting took place in Beijing on the 14 April 1999. ~~The named companies agreed that discussed about the introduction of several advantageous features of CATT's TD-SCDMA approach~~ have advantages and propose in order to introduce them in the 3GPP standard for consideration and adoption. ~~Therefore this documents proposes an optional chiprate.~~

All the participating companies express their gratitude to CATT and RITT of facilitating this process.

Proposal Recognition

The TD-SCDMA approach of CATT shows a lot of new features, which potentially improve the UTRA-TDD system. Referring to our common understanding, additional flexibility in the TDD chiprate should be given in order to enable optimal functionality of these features.

Hence it is understood ~~proposed~~ that it is very important to harmonise the two technologies, ~~and to introduce a narrowband chiprate to UTRA TDD.~~ In order and to minimise the effects on higher layers of the current draft specification of 3GPP, ~~and system architecture the aim should be,~~ that the narrowband chiprate is an addition to L1 of TDD. ~~The effects to other layers or protocols will be minimised.~~

Proposal

It is ~~proposed~~recommended -to consider the following key parameter and features

- Lower chiprate
- UL synchronization
- Smart antennas
- Baton handover

It has been suggested that the above features may benefit from the introduction of a lower chiprate. The value of 1.3542Mcps has been proposed by CATT ~~introduce the chiprate of about 1.3542 Mcps, as described in the original CATT's approach and as defined in the~~ Draft Recommendation on RKEY document of the ITU-R TG8/1.

It is further recommended that the 3GPP will define the exact optimum figure for the narrowband chip rate based on CATT contribution to meet the UTRA and IMT-2000 minimum requirements.

~~Additional features of TD-SCDMA, such as Baton HO, smart antennas, Uplink synchronisation were discussed and are supported by the companies mentioned in the source. CATT will prepare relevant documents for 3GPP.~~

{CATT will make detailed contributions on each of these features which will enable 3GPP to make decisions.}