Technical Specification Group Services and System Aspects   *TSGS#4(99)332*
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Agenda Item: 6.6.

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Title: Use of the TDD mode in the paired bands

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Introduction

The third generation services will be multimedia services:
- Video
- Internet
- Videoconference
- E-Mail
- Audio services

The user is likely to receive much more information than he can generate.

This implies that the overall traffic will be significantly asymmetric. For the operators this issue is crucial because it implies impacts on the network design.
If the operator wants to respond to the market demand, he has to be able to easily design his network.

Use of the TDD mode in the paired bands

To support these types of services, the network has to offer the desired asymmetry. In order to achieve this asymmetry between uplink and downlink it is necessary that the use of both modes in the spectrum be flexible.

The use of the TDD mode in the paired bands should therefore be possible because operators may desire to design a TDD mode only network in some specific cases.
It is important that we do not build in restrictions into release 99 which close the door on future possibilities. Some flexibility in this respect can be added in future releases.

It is proposed that the possibility to use TDD should explicitly be foreseen in all UMTS bands and that this provision be incorporated in the text of the specifications as appropriate.