

3GPP TR 25.cde V0.0.1 (2004-08)

Technical Report

3rd Generation Partnership Project; Technical Specification Group Radio Access Network; FDD Enhanced Uplink: UTRAN Iub/Iur Protocol Aspects (Release 6)



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Foreword

This Technical Report has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document is part of the Release 6 work item “FDD Enhanced Uplink”. The purpose of the present document is to help the TSG RAN WG3 group to specify the changes to existing Iub/Iur specifications, needed for the introduction of the “FDD Enhanced Uplink” feature for Release 6. This work task belongs to the TSG RAN Building Block “FDD Enhanced Uplink: UTRAN Iub/Iur Protocol Aspects”.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP RP-040081: "Proposed Work Item on FDD Enhanced Uplink"
[2] 3GPP TR 25.896: "Feasibility Study for Enhanced Uplink for UTRA FDD"
[3] 3GPP TR 25.309: "FDD Enhanced Uplink; Overall Description: Stage 2"

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply.

E-DCH: Enhanced DCH, a new dedicated transport channel type or enhancements to an existing dedicated transport channel type.

3.2 Symbols

For the purposes of the present document, the following symbols apply:

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

HARQ	Hybrid Automatic Repeat Request
HSDPA	High Speed Downlink Packet Access

4 Background and Introduction

In RA N#23 plenary meeting a work item was approved for FDD Enhanced Uplink [1]. The technical objective of this work item is to improve the performance of uplink dedicated transport channels. Among the techniques studied in [2],

the following ones have been retained for further consideration within the scope of the FDD Enhanced Uplink work item: Node B controlled scheduling, hybrid ARQ and shorter TTI.

The improvements should take into account backwards compatibility aspects.

This work item is applicable to UTRA FDD only.

5 Requirements

In addition to the overall system requirements outlined and agreed upon in Section 5 of [3], the following specific requirements to RAN3 should be applied:

1. *{Add here any RAN3-specific requirements e.g. HSDPA had only one: aligning FDD with TDD.}*

6 Study Areas

6.1 Impacts on Iub/Iur Interfaces – General Aspects

{This section should describe general aspects associated with FDD Enhanced Uplink e.g. Node B logical model, data streams, data ports, etc.}

6.2 Impacts on Iub/Iur Control Plane Protocols

{This section should describe Control Plane aspects associated with FDD Enhanced Uplink e.g. signalling requirements, NBAP/RNSAP dedicated procedures, NBAP cell-level procedures, call flows, etc.}

6.3 Impacts on Iub/Iur User Plane Protocols

{This section should describe User Plane aspects associated with FDD Enhanced Uplink e.g. frame protocol procedures and messages, etc.}

6.4 QoS Aspects

{This section should describe the QoS aspects associated with FDD Enhanced Uplink. Note that this section is void in 25.877.}

6.5 Backwards Compatibility

{This section should identify backwards compatibility issues when introducing the FDD Enhanced Uplink functionality into RAN3. The goal is to ensure that there are no backwards compatibility issues. Note that this section is void in 25.877.}

7 Agreements and associated contributions

8 Specification Impact and associated Change Requests

This section is intended to list the affected specifications and the related agreed Change Requests. It also lists the possible new specifications that may be needed for the completion of the Work Task.

9 Project Plan

9.1 Schedule

Date	Meeting	Scope	[expected] Input	[expected]Output

9.2 Work Task Status

	Planned Date	Milestone	Status
1.			
2.			

Annex A (informative): Change history

Document history		
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2004.08	V 0.0.1	Proposed skeleton
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