

3G TR 25.TPS V0.0.0 (2000-09)

Technical Report

3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Terminal Power Saving Feature (Release 2000)



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Foreword

This Technical Specification 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:

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- x the first digit:
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- 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 the draft Technical Report of the Release 2000 work item "Terminal Power Saving Feature".

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.

[1] 3G TS 25.211 (V3.2.0): "Example 1, using sequence field".

[2] 3G TS 25.212 (V3.2.0): "Example 2, using fixed text".

[3] 3G TS 25.213 (V3.2.0): ""

[4] 3G TS 25.214 (V3.2.0): ""

[5] 3G TS 25.215 (V3.2.0): ""

[6] 3G TS 25.302 (V3.2.0): ""

[7] 3G TS 25.331 (V3.2.0): ""

[8] 3G TS 25.402 (V3.2.0): ""

[9] 3G TS 25.433 (V3.2.0): ""

3 Definitions, symbols and abbreviations

3.1 Definitions

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

Example: text used to clarify abstract rules by applying them literally.

3.2 Symbols

3.3 Abbreviations

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

CFN	Connection Frame Number
DPCCH	Dedicated Physical Control Channel
DSCH	Downlink Shared Channel

4 Background and Motivation of Terminal Power Saving

4.1 Background

This section should explain the background of the work item “Terminal Power Saving Feature”.

4.2 Motivation

This section should explain the motivation of the Terminal Power Saving Feature.

5 Requirements to the Solution

5.1 Backward Compatibility

In this section, the backward compatibility will be discussed.

5.2 Expected Gains over Current Specification

This section should explain the expected gains over current specification.

6 Concepts of Gated DPCCH Transmission

6.1 Related Parameters

6.2 Overall Procedure

6.3 Start and Stop Indication

6.4 Operation of Gated DPCCH Transmission

6.4.1 Uplink and Downlink

6.4.2 Downlink Only

6.5 Switch-On/Off Pattern

6.6 Power Control Parameters

6.6.1 Power Control Parameters during Gated DPCCH Transmission

6.6.2 Power Control Parameters during Recovering Period

7 Impacts to each WGs

7.1 WG1

7.2 WG2

7.3 WG3

7.4 WG4

8 Performance Aspects

8.1 Simulation Model

8.1.1 Packet Call Model

8.1.2 Simulation Assumption

8.1.3 Simulation Parameters

8.2 Results

8.2.1 Throughput

8.2.2 Degree of Terminal Power Saving

9 Recommendation

Annex <X>:
Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New