

ETSI TS 145 015 V6.0.0 (2005-01)

Technical Specification

**Digital cellular telecommunications system (Phase 2+);
Release independent Downlink Advanced
Receiver Performance (DARP);
Implementation guidelines
(3GPP TS 45.015 version 6.0.0 Release 6)**



ReferenceRTS/TSGG-0145015v600

KeywordsGSM

ETSI

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Foreword

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

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Version x.y.z

where:

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 - 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 specifies requirements on MSs supporting Downlink Advanced Receiver Performance (DARP) that are independent of release. TSG GERAN has agreed that the standardisation of DARP be independent of a release. However, in order to implement an MS that conforms to a particular release but supports DARP, which is specified in a later release, it is necessary to specify some extra requirements.

DARP is contained in the Release 6 specifications. In order to implement an MS conforming to Release 5 but supporting DARP, it is necessary for the MS to additionally conform to some parts of the Release 6 specifications, such as the radio frequency requirements for DARP and some signalling extensions relating to the MS Classmark and radio access capabilities.

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 TS 45.005: "Radio transmission and reception (Release 6)".

[2] 3GPP TS 24.008: "Mobile radio interface Layer 3 specification; Core Network protocols; Stage 3 (Release 6)".

3 Definitions and abbreviations

Unless listed below, all definitions and abbreviations used in the present document are listed in documents referenced in clause 2.

3.1 Abbreviations

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

DARP Downlink Advanced Receiver Performance

4 DARP MS Independent of Release

MSs that conform to Release 5 and support DARP shall support the following requirements in Release 6.

4.1 RF Requirements

The MS shall comply with the RF requirements for DARP specified in [1]. These requirements are:

Section 6.3: Reference interference level.

4.2 Signalling Requirements

The MS shall support the following information elements specified in [2]:

Section 10.5.1.7 Mobile Station Classmark 3, with the following exceptions:

- Fields *T-GSM 400 Bands Supported* and *T-GSM 900 Associated Radio Capability* shall be indicated as not present since they are not defined in Release 5. This is done by setting the indication bit to '0'.

Section 10.5.5.12a MS Radio Access Capability, with the following exceptions:

- Parameter *Multiple TBF Capability* shall be indicated as not supported since it is not defined in Release 5. This is done by setting the bit value '0' for this parameter.
- In addition, for *Access Technology Type*, the values '1001' through to '1011' shall not be used since GSM T 380, GSM T 410 and GSM T 900 are not supported in Release 5.

Annex A (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2004-11	22	GP-042854			Version for Release 5		5.0.0
2005-01	23				Version for Release 6	5.0.0	6.0.0

History

Document history		
V6.0.0	January 2005	Publication