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8 [[]HJb]`WV] b]`hY`Y_ca i b]_UW`g_]`g]ghYa `fZUnU&ZL!`Df]_`1]hj YbY`nU HJj Y`nU
 [`cVU b]`g]ghYa `a cV]b]`_ca i b]_UW`^f] GAŁ!`pY`Ynb]ý_]`dUgcj]`fF!; GAŁ!`AcV]`bY
 dcgHUY`E`8 cglcd`f] GA`%`*`+žfUn`] JWU) '\$`&ž]nXUU`%`-`*`Ł

Digital cellular telecommunications system (Phase 2+); Attachment requirements for Global System for Mobile communications (GSM); Railways Band (R-GSM); Mobile Stations; Access (GSM 13.67 version 5.0.2 Release 1996)

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European Standard (Telecommunications series)

**Digital cellular telecommunications system (Phase 2+);
Attachment requirements for
Global System for Mobile communications (GSM);
Railways Band (R-GSM);
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(GSM 13.67 version 5.0.2 Release 1996)**

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Foreword

This European Standard (Telecommunications series) has been produced by the Special Mobile Group (SMG).

The present document covers the requirements for GSM terminal equipment capable of operating in the frequency bands allocated for use by private networks of the European railways (876-880 MHz and 921-925 MHz), hereafter designated R-GSM terminals.

The present document contains the procedures and requirements for the approval testing of R-GSM terminals.

The requirements of TBR-19, Access apply in addition to the present document, for R-GSM terminals.

Equipments complying with these standards will carry the presumption of conformity with the essential requirements referred to in Article 5 of the Directive 98/13 EC of the European Parliament and of the Council.

For each test, supplementary information is provided, giving a justification why this item has been selected for regulatory testing, and a reference to the relevant article of the Terminal Directive [1].

The present document is based on EN 300 607-1 (GSM 11.10-) [2].

The contents of the present document may be subject to continuing work within SMG and may change following formal SMG approval. Should SMG modify the contents of the present document it will then be re-submitted for formal approval procedures by ETSI with an identifying change of release date and an increase in version number as follows:

Version 5.x.y

where:

- 5 GSM Phase 2+ Release 1996
- x the second digit is incremented for changes of substance, i.e. technical enhancements, corrections, updates, etc.;
- y the third digit is incremented when editorial only changes have been incorporated in the specification.

National transposition dates

Date of adoption of this EN:	12 November 1999
Date of latest announcement of this EN (doa):	29 February 2000
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 August 2000
Date of withdrawal of any conflicting National Standard (dow):	31 August 2000

1 Scope

The present document specifies the technical requirements to be met by GSM terminal equipment capable of operating in the frequency bands allocated for use by private networks of the European Railways (876 - 880 MHz and 921 - 925 MHz). The present document applies to R-GSM terminals for Phase 2+ of the public land mobile radio service, operating in the European Railways R-band frequency in addition to the 900 MHz GSM band with a channel separation of 200 kHz, utilising constant envelope modulation and carrying traffic channels according to the Time Division Multiple Access (TDMA) principle.

The present document specifies the R-GSM terminal requirements for the European Railways version of the Global System for Mobile communications (GSM).

For each test purpose and its corresponding conformance requirement, a reference is given to the test method in EN 300 607-1 (GSM 11.10-1) [2]. The requirements apply at the air interface and the Subscriber Identity Module - Mobile Equipment interface for the access requirements, which may be stimulated to perform the tests by additional equipment if necessary.

The measurement uncertainty is described in EN 300 607-1 (GSM 11.10-1) [2].

The present document covers the telecommunication terminal equipment (TTE) essential requirements of the Terminal Directive 98/13/EC [1] Articles 5d, 5e, 5f.

The Terminal Directive 98/13/EC [1] Articles 5a and 5b are covered by other directives, and, therefore, not by the present document.

In the present document, there are no Electromagnetic Compatibility technical requirements in terms of the Terminal Directive 98/13/EC [1], Article 5c.

NOTE 1: Technical Requirements for EMC performance and testing of the equipment are covered by the relevant standards applicable to the EMC Directive 89/336/EEC, annex A.

The present document specifies the R-GSM terminals additional requirements, which will apply in addition to the Harmonised Standards covering the operation of these terminals in the frequency bands allocated for public GSM networks.

EN 300 607-1 (GSM 11.10-1) [2] constitutes the conformance test suite for GSM. The verification of the conformance requirements in the present document is based on the tests described in this reference. The set of requirements in EN 300 607-1 (GSM 11.10-1) [2] and the set of requirements in the present document need not be identical.

All the requirements in the present document are specific to mobile stations supporting R-GSM.

An active accessory is covered by the present document if it modifies the terminal performance in an aspect which affects conformance to essential requirements.

NOTE 2: Only active devices are subject to the present document. Accessories may be tested with specific terminals, and either approved for use with those terminals only, or may possibly be approved for use with a wider range of terminals, depending on the nature and effect of the accessory.

For each test, supplementary information is provided, giving a justification why this item has been selected for regulatory testing, and a reference to the relevant article of the Terminal Directive [1].

The present document is based on EN 300 607-1 (GSM 11.10-1) [2].

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.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.
- For this Release 1996 document, references to GSM documents are for Release 1996 versions (version 5.x.y).

- [1] Directive 98/13/EC of the European Parliament and of the Council of 12 February 1998 relating to telecommunications terminal equipment and satellite earth station equipment, including the mutual recognition of their conformity.
- [2] EN 300 607-1 (GSM 11.10-1): "Digital cellular telecommunications system (Phase 2+); Mobile station conformity specifications".
- [3] TBR 19: "European digital cellular telecommunications system; Attachment requirements for Global System for Mobile communications (GSM) mobile stations; Access".
- [4] GSM 01.04 (ETR 350): "Digital cellular telecommunication system (Phase 2+); Abbreviations and acronyms"
- [5] TBR 20: "European digital cellular telecommunications system (Phase 2; Attachment requirements for Global System for Mobile communications (GSM) mobile stations; Telephony".

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3 Abbreviations

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

R-GSM	Railways Global System for Mobile communications
ASCI	Advanced Speech Call Items
VBS	Voice Broadcast Service
VGCS	Voice Group Call Service
eMLPP	enhanced Multi-Level Precedence and Pre-emption service
MO	Mobile Originated
MT	Mobile Terminated

Additional GSM related abbreviations can be found in GSM 01.04 (ETR 350) [4].

4 General requirements

R-GSM Band terminals shall conform to:

- a) the requirements of the GSM 900 requirements of TBR19; and
- b) the requirements of clause 5 of the present document; and
- c) the requirements in Annex A of the present document; and
- d) if the terminal implements speech services, the requirements of TBR 20.

5 Requirements

The following table contains all requirements that are needed to meet the essential requirements as defined in the Terminal Directive [1]. A justification according to article 5 of the Terminal Directive is given by stating the relevant categories (d to f) together with a text supporting the justification.

The entries are defined as follows:

- "EN 300 607-1 Item" defines the item number of the conformance requirement and also the reference to EN 300 607-1 (GSM 11.10-1) [2]. This reference is a normative reference to a subclause of EN 300 607-1 (GSM 11.10-1) [2] containing the conformance requirement text, and references to the base standard.
- "Description" contains a short description of the requirement.
- "Justification" contains supplementary information to explain the justification of the requirement according to article 5 of the Terminal Directive [1].
- "TD Cat" defines the category according to article 5 of the Terminal Directive [1].
- "Test Cat" defines whether the requirement is covered by a "special test situation" (e.g. a manufacturer's declaration of some form). An "X" indicates a special test situation, whilst, a blank entry indicates conformity is by the test referred to by the present document.

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