

8 [[]HJb]`WV] b]`HY`Y_ca i b]_UW`g_]`g]ghYa `fZuU`8ZL!`Df]_`1]hj YbY`nU HJ Y`nU
[`cVUb]`g]ghYa `a cV]b]`_ca i b]_UW`f] GA L!`GYgHJ]bY]nVc`YU`bY U[c j cf bY U
_`JWUf5 G7 L!`AcV]bY`dcgHJY`!`8 cghcd`f] GA `%`*, žfU`h]]WU) "\$`&ž]nXU`U%-`* L

Digital cellular telecommunications system (Phase 2+) - Attachment requirements for
Global System for Mobilecommunications (GSM) - Advanced Speech Call Items (ASCI) -
Mobile Stations - Access (GSM 13.68 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);
Advanced Speech Call Items (ASCI);
Mobile Stations;
Access
(GSM 13.68 version 5.0.2 Release 1996)**

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GSM®

GLOBAL SYSTEM FOR
MOBILE COMMUNICATIONS

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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 Advanced Speech Call Items (ASCI) terminal equipment, hereafter designated GSM-ASCI terminals.

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

The requirements of TBR 19 [3] and TBR 31 [4], Access apply in addition to the present document, for GSM-ASCI terminals.

Equipment 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
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Date of withdrawal of any conflicting National Standard (dow):	31 August 2000

1 Scope

The present document specifies the Advanced Speech Call Items (ASCI) requirements for the Global System for Mobile Communication (GSM) terminal equipment with a channel separation of 200 kHz, utilising constant envelope modulation and carrying traffic channels according to the Time Division Multiple Access (TDMA) principle.

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 ASCI Terminals equipment 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 ASCI.

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] TBR 31: "Digital cellular telecommunications system (Phase 2); Attachment requirements for mobile stations in the DCS 1800 band and additional GSM 900 band; Access".
- [5] GSM 01.04 (ETR 350): "Digital cellular telecommunication system (Phase 2+); Abbreviations and acronyms"
- [6] TBR 20: "European digital cellular telecommunications system (Phase 2; Attachment requirements for Global System for Mobile communications (GSM) mobile stations; Telephony".
- [7] TBR 32: "Digital cellular telecommunications system (Phase 2); Attachment requirements for mobile stations in the DCS 1800 band and additional GSM 900 band; Telephony".

3 Abbreviations

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

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

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

4 General requirements

GSM-ASCI terminals shall conform to:

- a) the GSM 900 requirements of TBR 19;
- b) the DCS 1800 requirements of TBR 31;
- c) the requirements of clause 5 of the present document; and
- d) the requirements in Annex A of the present document; and if the terminal implements speech services,
- e) the GSM 900 requirements of TBR 20;
- f) the DCS 1800 requirements of TBR 32.

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.

Table 1: Requirements and Justifications

EN 300 607-1 Item	Description	Justification	TD Cat	Test Cat
26.14.1.1	Notification/ notification indication	Correct implementation of this procedure in the MS is essential for basic VGCS/VBS listening (f); Any uplink transmission when listening will harm network functioning (d)	d, f	
26.14.1.2	Notification/ NCH position	If the MS does not implement the procedure correctly the MS may use wrong CCCH blocks (d), and the correct downlink connection will not be established (f)	d, f	
26.14.1.3	Notification/ Reduced NCH monitoring	If the MS does not implement the procedure correctly the MS can lose a VGCS/VBS call.	f	
26.14.1.4	Notification/ limited service	Correct implementation of this procedure ensures the MS in a not- allowed location area to receive a possible urgent VGCS/VBS call.	f	
26.14.2.1	Paging/ Paging indication	If the procedure is not correctly implemented, CCCH functioning will be disturbed (d) and the interworking with the network will not be possible (f).	d, f	
26.14.2.2	Paging/ Notification	If the MS does not implement the procedure correctly the MS can lose an urgent VGCS/VBS call.	f	
26.14.3.1	RR Procedures/ frequency redefinition	If the MS does not implement correctly this procedure, it can not interwork with the network as soon as this procedure is triggered (f) the MS may also use wrong frequencies (d).	d, f	
26.14.3.2	RR Procedures/ assignment	If the assignment procedure is not correctly implemented by the MS, uplink connections can not be established (f). If the correct power level is not applied it harms the network (d).	d, f	
26.14.3.3	RR Procedures/ handover / successful in group transmit mode	If the handover procedure is not correctly implemented by the MS, it is impossible to switch a VGCS/VBS talking in progress from one cell to another cell.	f	
26.14.3.4	RR Procedures/ handover/ successful at group call establishment	If the handover procedure is not correctly implemented by the MS, it is impossible to switch a VGCS/VBS talking in progress from one cell to another cell.	f	
26.14.3.5	RR Procedures/ handover / failure	If the handover failure procedure is not correctly implemented by the MS, the uplink between the MS and the network will be lost (f). If the correct power level is not followed, the interference level will be increased (d).	d, f	

Table 1 (continued): Requirements and Justifications

EN 300 607-1 Item	Description	Justification	TD Cat	Test Cat
26.14.3.6	RR Procedures/ Measurement / all neighbours present	The measurement reports that are sent by the MS when talking are used by the network to determine whether a handover procedure should be performed and towards which cell it can be performed (f).	f	
26.14.4.1	Uplink Access / uplink investigation	If the MS does not implement correctly this procedure, it can not interwork with the network as soon as uplink is triggered.	f	
26.14.4.2	Uplink Access/ uplink access	If the MS does not implement correctly this procedure, it can not interwork with the network for VGCS/VBS talking.	f	
26.14.4.3	Uplink Reply in VGCS receive mode	If the MS does not implement correctly this procedure, it can not interwork with the network when the network wishes a talking.	f	
26.14.5.1	Leaving group receive mode	If the MS does not implement correctly this procedure, the downlink connection can not be cleared.	f	
26.14.5.2	Leaving group transmit mode	If the MS does not implement correctly this procedure, the uplink connection can not be cleaned (f), it can harm the network functioning (d) and network resources are wasted (e).	d, e, f	
26.14.6.1	GCC/BCC Procedures / MO call establishment	Correct implementation of this procedure ensures the establishment of an MO VGCS/VBS call.	f	
26.14.6.2	GCC/BCC Procedures / Transaction identifier	If the MS does not behave as required, common methods of the network to solve error conditions cannot be applied (f). Also parallel transactions or the attempt to establish or to clear parallel transactions might endanger a connection (d).	d, f	
26.14.6.3	GCC/BCC Procedures / Call termination / originator/ group transmit mode	If this procedure is incorrectly implemented in the MS, normal clearing of a MO VGCS/VBS call can not work; the MS can end up in an undefined or inconsistent state (f). Uplink resource can be wasted (d).	d, f	