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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 5.0.1)**

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) of the European Telecommunications Standards Institute (ETSI) and is now submitted for the Voting phase of the ETSI standards Two-step Approval Procedure.

This standard covers the requirements for Advanced Speech Call Items (ASCI) terminal equipment, hereafter designated GSM-ASCI terminals.

This standard 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 this standard, 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].

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

The contents of this standard may be subject to continuing work within SMG and may change following formal SMG approval. Should SMG modify the contents of this standard 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.

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

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].

This standard 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 this standard.

In this standard, 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.

This standard 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 this standard 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 this standard need not be identical.

All the requirements in this standard are specific to mobile stations supporting ASCI.

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

NOTE 2: Only active devices are subject to this standard. 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].

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

2 Normative references

References may be made to:

- a) specific versions of publications (identified by date of publication, edition number, version number, etc.), in which case, subsequent revisions to the referenced document do not apply; or
- b) all versions up to and including the identified version (identified by "up to and including" before the version identity); or
- c) all versions subsequent to and including the identified version (identified by "onwards" following the version identity); or
- d) publications without mention of a specific version, in which case the latest version applies.

A non-specific reference to a standard shall also be taken to refer to later versions published as an standard with the same number.

- [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 this standard 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 this standard; and
- d) the requirements in Annex A of this standard; 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 this standard.

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	

Table 1 (continued): Requirements and Justifications

EN 300 607-1 Item	Description	Justification	TD Cat	Test Cat
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	

Table 1 (continued): Requirements and Justifications

EN 300 607-1 Item	Description	Justification	TD Cat	Test Cat
26.14.6.4	GCC/BCC Procedures / Call termination / originator/ group receive mode	If this procedure is incorrectly implemented in the MS, normal clearing of a MO VGCS/VBS call can not work, or the MS can end up in an undefined or inconsistent state (f).	f	
26.14.6.5	GCC/BCC Procedures / Call Termination / not originator	If this procedure is incorrectly implemented the MS can end up in an undefined or inconsistent state (f).	f	
26.14.6.6	GCC/BCC Procedures / GCC states	If this procedure is incorrectly implemented the MS can end up in an undefined or inconsistent state (f).	f	
26.14.6.7	GCC/BCC Procedures / BCC states	If this procedure is incorrectly implemented the MS can end up in an undefined or inconsistent state (f).	f	
26.14.7.1	Error handling / short message length, unknown message type and TI	If the MS does not behave as required, essential mechanisms for extension of protocols in later phases may not be correctly implemented in the MS. This would endanger the compatibility mechanisms, and such a MS might be unacceptable in coming phases (d, f). Common methods of the network to solve error conditions cannot be applied (f). Parallel transactions or the attempt to establish or to clear parallel transactions might endanger a connection (d).	d, f	
26.14.7.2	Error handling / incorrect information elements	If a MS does not behave as required, essential mechanisms for extension of protocols in later phases may not be correctly implemented in the MS. This would endanger the compatibility mechanisms (d), and such a MS might be unacceptable in coming phases (f).	d, f	
26.14.7.3	Error handling / Message not addressing VGCS receive mode	If a MS does not behave as required, the MS might misuse network resource (d,e) for uplink connection.	d, e	
26.14.8.1	Structured Procedures/ very early and early assignments	If the MS does not implement the procedure correctly the MS might misuse of the network resources (d, e). The VGCS/VBS MO call establishment can fail (f).	d, e, f	
26.14.9.1	Cell change / same LA	If this procedure is incorrectly implemented the MS can not maintain the VGCS/VBS listening when switching cells within a PLMN.	f	

Table 1 (concluded): Requirements and Justifications

EN 300 607-1 Item	Description	Justification	TD Cat	Test Cat
26.14.9.2	Cell change / different LA	If this procedure is incorrectly implemented the MS can not maintain the VGCS/VBS listening when switching cells within a PLMN.	f	
26.14.9.3	Cell change / different PLMN	Correct implementation of this procedure ensures that a same downlink VGCS/VBS call is not automatically maintained when switching cells belonging to different PLMN.	f	
31.12.1	eMLPP Service/ priority level MO call	Correct implementation of this procedure ensures that the MS can interwork with the network when an establishment of a prioritised MO call is in progress.	f	
31.12.2	eMLPP Service/ automatic answering point to point MT call	Correct implementation of this procedure ensures that the MS can interwork with the network when an establishment of a prioritised MT call is in progress.	f	
31.12.3	eMLPP Service/ automatic answering MT VGCS or VBS call	Correct implementation of this procedure ensures that the MS can interwork with the network when an establishment of a prioritised MT call is in progress.	f	
31.12.4	eMLPP Service/ registration	Correct implementation of this procedure ensures that the MS can register an eMLPP service with a certain priority level.	f	
31.12.5	eMLPP Service/ interrogation	Correct implementation of this procedure ensures that the MS can interrogate the priority levels of the eMLPP service.	f	

Annex A (normative): The Requirement Table (RT)

A.1 Introduction to the RT

This RT provides a summary of all the requirements of this standard. It shows the status of each EN-Requirement (EN-R), whether it is essential to implement in all circumstances, or whether the requirement is dependant on the manufacturer having chosen to support a particular optional service or functionality. In particular it enables the EN-Rs associated with a particular optional service or functionality to be grouped and identified.

The static requirements proforma provides the means to capture the choices which the manufacturer has made in implementing the equipment.

The dynamic requirements proforma indicates the choices for which conformance is claimed for.

When completed in respect of a particular equipment the tables provide a means to undertake the static assessment of conformity with the standard, and to select the appropriate test cases to be used in dynamically testing the equipment.

References to items

For each possible item answer (answer in the support column) within the static requirements tables there exists a unique reference, used, for example, in the conditional expressions. It is defined as the table identifier, followed by a solidus character (/), followed by the item number in the table. If there is more than one support column in a table, the columns shall be discriminated by letters (a, b, etc.), respectively.

EXAMPLE 1: A.1/8 is the reference to the answer of item 8 in table A.1.

EXAMPLE 2: A.6/3b is the reference to the second answer (i.e. in the second support column) of item 3 in table A.6.

Prerequisite line

A prerequisite line takes the form: Prerequisite: <predicate>.

A prerequisite line after a clause or table title indicates that the whole clause or the whole table is not required to be completed if the predicate is FALSE.

A.2 Format of the tables

The entries of the static requirement tables are defined as follows:

- In the "Item" column a local entry number for the requirement in the RT is given.
- In the "Description" column a short non-exhaustive description of the requirement is found.
- The "Ref." column references the corresponding clause of base standard or EN 300 607-1 (GSM 11.10-1) [2].
- In the "Status" column the status of the entry, as further detailed in the following clause, is indicated.
- The "Support" column is blank in the proforma, and shall be completed by the manufacturer in respect of each particular requirement to indicate the choices, which have been made in the implementation.
- The "Values allowed" column contains the values or the ranges of values allowed.
- The "Values supported" column shall be filled in by the supplier of the implementation. In this column, the values or the ranges of values supported by the implementation shall be indicated.
- The "Mnemonic" assigns a symbolic name to the static requirement.

The entries of the dynamic requirement tables 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 section of EN 300 607-1 (GSM 11.10-1) [2] containing the conformance requirement text, and references to the base standard.
- In the "Description" column a short non-exhaustive description of the requirement is found.
- The "TD Cat" column the class of essential requirements is indicated. Essential requirements are classified according to article 5 of the EC Council Directive, 98/13/EC. Valid entries used in this RT are d, e and f, corresponding to respectively "protection of public networks", "effective use of frequency" and "interworking with public networks".
- In the "Status" column the status of the entry, as further detailed in the following clause, is indicated.
- The "Support" column is blank in the proforma, and shall be completed by the manufacturer in respect of each particular requirement to indicate the choices, for which conformance is claimed for.

A.3 References to EN 300 607-1 (GSM 11.10-1)

The reference number in column "EN 300 607-1 Item" references subclauses in EN 300 607-1 (GSM 11.10-1) [2].

A.4 Notations used in the RT

A.4.1 Status Notations

The "Status" column shows the status of the entries as follows:

M	Mandatory, shall be implemented under all circumstances.
O	Optional, may be provided, but if provided shall be implemented in accordance with the requirements.
O.<n>	This status is used for mutually exclusive or selectable options among a set, in cases where it is mandatory to implement one or more options among a set. The integer <n> refers to a unique group of options within the RT. A footnote under the table in which it is used states explicitly what the requirement is for each numbered group.
C<n>	Conditional number <n>. Reference is made to a Boolean expression under the table with predicates of support answers, which will resolve to either "M", "X", "N", or "O.<n>" for a specific implementation. In all cases "ELSE Not Applicable" is implied, if an ELSE expression is omitted.
N/A	Not applicable.
X	Excluded or Prohibited.

A.4.2 Support Answer Notations

The "support" column is reserved for completion in respect of a particular implementation. Entries may be:

- Yes (or Y or y) Indicating that the implementation claims to fully implement the EN-R in accordance with the specification. The entry of a "Yes" against an "X" status entry means the equipment does not conform to the standard.
- No (or N or n) Indicating that the implementation does not claim full support of the EN-R in accordance with the specification. The entry "No" against an "M" status entry means the equipment does not conform to the standard.

A.5 The Requirement Tables

A.5.1 Static Requirements, RT A

A.5.1.1 Types of Mobile Stations

The supplier of the implementation shall state the support of the implementation for each of the questions concerning the types of a mobile station given in the tables below:

Table A.1: Types of GSM 900 Mobile Stations

Item	Type of Mobile Station	Ref.	Status	Support	Mnemonic
9	R-GSM Band (including standard and E-GSM Band)	GSM 02.06, 3.2.1	O		Type_GSM_R_Band

Comments:

A.5.1.2 Mobile Station Features

Not used.

A.5.1.3 Teleservices

The supplier of the implementation shall state the support of the implementation for each of the teleservices given in the table below.

Table A.3: Teleservices

Item	Teleservice	Ref.	Status	Support	Mnemonic
8	Voice Group Call Service (VGCS)	GSM 02.03 A.1.6	O		TSPC_Serv_TS91
9	Voice Broadcast Service (VBS)	GSM 02.03 A.1.7	O		TSPC_Serv_TS92

Comments:

A.5.1.4 Bearer Services

Not used.

A.5.1.5 Supplementary Services

The supplier of the implementation shall state the support of the implementation for each of the supplementary services given in the table below.

Table A.5: Supplementary Services

Item	Supplementary Service	Ref.	Status	Support	Mnemonic
21	enhanced Multi-Level Precedence and Pre-emption service (eMLPP)	GSM 02.04, 3.1 GSM 02.67, 4	O		TSPC_Serv_eMLPP

Comments:

A.5.1.6 Bearer Capability Information

Not used

A.5.1.7 Additional Information

The supplier of the implementation shall state the support of the implementation for each of the questions concerning additional information given in the table below.

Table A.25: Additional Information (continued)

Item	Additional Information	Ref.	Status	Support	Mnemonic
66	Support of listening to voice broadcast calls (VBS listening)	GSM 04.08, 0.7.1	O		TSPC_VBS_Listening
67	Support of originating voice broadcast call (VBS originating)	GSM 04.08, 0.7.1	O		TSPC_VBS_Originating
68	Support of listening to voice group calls (VGCS listening)	GSM 04.08, 0.7.1	C2503		TSPC_VGCS_Listening
69	Support of talking in voice group calls (VGCS talking)	GSM 04.08, 0.7.1	C2504		TSPC_VGCS_Talking
70	Support of originating voice group call (VGCS originating)	GSM 04.08, 0.7.1	O		TSPC_VGCS_Originating
71	Support reduced NCH monitoring	GSM 04.08, 3.3.3.3	O		TSPC_NCH_ReducedMonitor
C2503	IF A.25/69 OR A.25/70 THEN M ELSE O			-- TSPC_VGCS	
C2504	IF A.25/70 THEN M ELSE O			-- TSPC_VGCS	

Comments:

A.5.2 Dynamic Requirements, RT B

Table A.26: Dynamic Requirements

EN 300 607-1 Item	Description	TD Cat	Status	Supported
26.14.1.1	Notification/ notification indication	d, f	C104	
26.14.1.2	Notification/ NCH position	d, f	C104	
16.14.1.3	Notification/ Reduced NCH monitoring	f	C105	
26.14.1.4	Notification/ limited service	f	C104	
26.14.2.1	Paging/ Paging indication	d, f	C104	
26.14.2.2	Paging/ Notification	f	C104	
26.14.3.1	RR Procedures/ frequency redefinition	d, f	C106	
26.14.3.2	RR Procedures/ assignment	d, f	C106	
26.14.3.3	RR Procedures/ handover / successful in group transmit mode	f	C106	
26.14.3.4	RR Procedures/ handover/ successful at group call establishment	f	C107	
26.14.3.5	RR Procedures/ handover / failure	d, f	C106	
26.14.3.6	RR Procedures/ Measurement / all neighbours present	f	C106	
26.14.4.1	Uplink Access / uplink investigation	f	C108	
26.14.4.2	Uplink Access/ uplink access	f	C108	
26.14.4.3	Uplink Reply in VGCS receive mode	f	C108	
26.14.5.1	Leaving group receive mode	f	C104	
26.14.5.2	Leaving group transmit mode	d, e, f	C106	
26.14.6.1	GCC/BCC Procedures / MO call establishment	f	C107	
26.14.6.2	GCC/BCC Procedures / Transaction identifier	d, f	C106	
26.14.6.3	GCC/BCC Procedures / Call termination / originator/ group transmit mode	d, f	C107	
26.14.6.4	GCC/BCC Procedures / Call termination / originator/ group receive mode	f	C109	
26.14.6.5	GCC/BCC Procedures / Call Termination / not originator	f	C104	
26.14.6.6	GCC/BCC Procedures / GCC states	f	C108	
26.14.6.7	GCC/BCC Procedures / BCC states	f	C110	
26.14.7.1	Error handling / short message length, unknown message type and TI	d, f	C107	
26.14.7.2	Error handling / incorrect information elements	d, f	C104	
26.14.7.3	Error handling / Message not addressing VGCS receive mode	d, f	C104	
26.14.8.1	Structured Procedures/ very early and early assignments	d, e, f	C107	
26.14.9.1	Cell change / same LA	f	C104	
26.14.9.2	Cell change / different LA	f	C104	
26.14.9.3	Cell change / different PLMN	f	C104	
31.12.1	eMLPP Service/ priority level MO call	f	C111	
31.12.2	eMLPP Service/ automatic answering point to point MT call	f	C112	
31.12.3	eMLPP Service/ automatic answering MT VGCS or VBS call	f	C113	
31.12.4	eMLPP Service/ registration	f	C114	
31.12.5	eMLPP Service/ interrogation	f	C114	

C103	IF A.1/9 THEN M ELSE N/A	-- Type_GSM_R_Band
C104	IF A.25/66 OR A.25/68 THEN M ELSE N/A	-- TSPC_VBS_Listening OR TSPC_VGCS_Listening
C105	IF (A.25/66 OR A.25/68) AND A.25/71 THEN M ELSE N/A	-- (TSPC_VBS_Listening OR TSPC_VGCS_Listening) AND TSPC_NCH_ReducedMonitor
C106	IF A.25/67 OR A.25/69 THEN M ELSE N/A	-- TSPC_VBS_Originating OR TSPC_VGCS_Talking
C107	IF A.25/67 OR A.25/70 THEN M ELSE N/A	-- TSPC_VBS_Originating OR TSPC_VGCS_ Originating
C108	IF A.25/69 THEN M ELSE N/A	-- TSPC_VGCS_Talking
C109	IF A.25/70 THEN M ELSE N/A	-- TSPC_VGCS_Originating
C110	IF A.25/67 THEN M ELSE N/A	-- TSPC_VBS_Originating
C111	IF A.5/21 AND A.25/20 THEN M ELSE N/A	-- TSPC_Serv_eMLPP AND TSPC_MOsvc
C112	IF A.5/21 AND A.25/19 THEN M ELSE N/A	-- TSPC_Serv_eMLPP AND TSPC_MTsvc
C113	IF (A.25/66 OR A.25/68) AND A.5/21 THEN M ELSE N/A	-- (TSPC_VBS_Listening OR TSPC_VGCS_Listening) AND TSPC_Serv_eMLPP
C114	IF A.5/21 THEN M ELSE N/A	-- TSPC_Serv_eMLPP

Annex B (informative): Document history

Document history		
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History

Document history				
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