

**Railways Telecommunications (RT);  
Global System for Mobile communications (GSM);  
Detailed requirements for GSM operation on Railways**

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Reference

DTR/RT-00002

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Keywords

GSM, UIC

**ETSI**

650 Route des Lucioles  
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C  
Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° 7803/88

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## Foreword

This Technical Report (TR) has been produced by ETSI Project Railway Telecommunications (RT).

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## 1 Scope

The present document recollects 3GPP Change Requests (CRs) required for operation of GSM for Railways. It complements EN 301 515 [1].

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## 2 References

For the purposes of this Technical Report (TR), the following references apply:

- [1] ETSI EN 301 515 (V2.3.0): "Global System for Mobile communication (GSM); Requirements for GSM operation on railways".
  - [2] ETSI TR 121 900: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Technical Specification Group working methods (3GPP TR 21.900)".
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## 3 Abbreviations

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

3GPP	Third Generation Partnership Project
CR	Change Request
EP RT	ETSI Project Railways Telecommunications
TSG	Technical Specification Group

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## 4 Additional CRs to the normative references specified in EN 301 515

In addition to GSM/3GPP TS as normative references specified in EN 301 515 [1], clause 2.1, several CRs approved by GSM/3GPP technical bodies are required for operation of GSM on Railways.

Tables 1 and 2 contain only the CRs which are related to the references specified in EN 301 515 [1].

This clause gives lists of the CRs and their identifications and short description.

- NOTE 1: 3GPP CRs are available as meeting documents of 3GPP TSGs. The meeting where the CR was approved is listed in the table next to the document number. The documents can be found at: <ftp://ftp.3gpp.org>. Extensive information on 3GPP working methods can be found in TR 121 900 [2].
- NOTE 2: GSM CRs are available as meeting documents of ETSI SMG. The meeting where the CR was approved is listed in the table next to the document number. These documents can be found at: <ftp://docbox.etsi.org/zArchive/SMG/SMG>.
- NOTE 3: 3GPP/SMG CRs database is the authoritative repository of the status of CRs presented in SMG/3GPP groups. This database can be found at: [ftp://ftp.3gpp.org/Information/Databases/Change\\_Request/](ftp://ftp.3gpp.org/Information/Databases/Change_Request/).

### 4.1 CRs approved in earlier phases before EP RT established

Table 1 gives the list of CRs which are approved in the earlier phases before EP RT established. The first and second columns of table 1 are identical to the table of clause 2.1 in EN 301 515 [1]. They are used to identify the TS to which additional CRs are required. The subsequent columns describe the required CRs if any.

Table 1: CRs approved before EP RT

Identity of the specifications which are identical to the table in clause 2.1 of EN 301 515 [1]		Additional CRs to the specification required	
Index	Specification	CR identification in addition to the TS	Purpose
[1]	ETSI TS 100 590: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile-services Switching Centre - Base Station System (MSC - BSS) interface; Layer 3 specification (GSM 08.08 version 8.5.0 Release 1999)".		
[2]	ETSI TS 100 607-1: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station (MS) conformance specification; Part 1: Conformance specification (GSM 11.10-1 version 8.2.0 Release 1999)".		
[3]	ETSI TS 100 929: "Digital cellular telecommunications system (Phase 2+) (GSM); Security related network functions (GSM 03.20 version 8.0.0 Release 1999)".		
[4]	ETSI TS 100 933: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Group Call Service (VGCS); Stage 2 (GSM 03.68 version 8.2.0 Release 1999)".	CR A023 to TS 03.68 R00 in P-00-255, approved at SMG#32	Introduction of OTDI (Originator-To-Dispatcher Information into VGCS)
[5]	ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".	CR A016 to TS 03.69 R00 in P-00-255, approved at SMG#32	Introduction of OTDI (Originator-To-Dispatcher Information into VBS)
[6]	ETSI TS 100 948: "Digital cellular telecommunications system (Phase 2+) (GSM); Group Call Control (GCC) protocol (GSM 04.68 version 8.1.0 Release 1999)".	CR A025 to TS 04.68 R00 in P-00-255, approved at SMG#32	Introduction of OTDI (Originator-To-Dispatcher Information into VGCS)
		CR 001 to TS 44.068 Rel-4 in NP-000449, approved at NP#09	The repetition of the priority in the Call Reference IE in the SETUP message
		CR 002 to TS 44.068 Rel-4 in NP-010269, approved at CN#12	Clarification of the coding of OTDI information in IA5 format
[7]	ETSI TS 100 949: "Digital cellular telecommunications system (Phase 2+) (GSM); Broadcast Call Control (BCC) protocol (GSM 04.69 version 8.1.0 Release 1999)".	CR A022 to TS 04.69 R00 in P-00-255, approved at SMG#32	Introduction of OTDI (Originator-To-Dispatcher Information into VBS)
		CR 001 to TS 44.069 Rel-4 in NP-000449, approved at CN#9	The repetition of the priority in the Call Reference IE in the SETUP message
		CR 002 to TS 44.069 Rel-4 in NP-010269, approved at CN#12	Clarification of the coding of OTDI information in IA5 format
[8]	ETSI TS 100 977: "Digital cellular telecommunications system (Phase 2+) (GSM); Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface (GSM 11.11 version 8.3.0 Release 1999)".		
[9]	ETSI EN 300 918: "Digital cellular telecommunications system (Phase 2+) (GSM); General on supplementary services (GSM 02.04 version 7.1.2 Release 1998)".		
[10]	ETSI TS 122 030: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Man-Machine Interface (MMI) of the User Equipment (UE) (3G TS 22.030 version 3.3.0 Release 1999)".		
[11]	ETSI EN 301 702: "Digital cellular telecommunications system (Phase 2+) (GSM); User-to-User Signalling (UUS); Service description, Stage 1 (GSM 02.87 version 7.1.2 Release 1998)".		

Identity of the specifications which are identical to the table in clause 2.1 of EN 301 515 [1]		Additional CRs to the specification required	
Index	Specification	CR identification in addition to the TS	Purpose
[12]	ETSI TS 122 094: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Follow Me Service description - Stage 1 (3G TS 22.094 version 3.1.0 Release 1999)".		
[13]	ETSI TS 100 932: "Digital cellular telecommunications system (Phase 2+) (GSM); enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 2 (3GPP TS 03.67 version 7.1.0 Release 1998)".		
[14]	ETSI EN 301 710: "Digital cellular telecommunications system (Phase 2+) (GSM); User-to-User Signalling (UUS); Stage 2 (GSM 03.87 version 7.0.2 Release 1998)".		
[15]	ETSI TS 123 094: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Follow-Me (FM); Stage 2 (3GPP TS 23.094 version 3.2.0 Release 1999)".		
[16]	ETSI EN 300 940: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile radio interface layer 3 specification (GSM 04.08 version 6.3.1 Release 1997)".	CR A495 to TS 04.08 R98 in P-99-232, approved at SMG#28	Introduction of UUS
		CR A534 to TS 04.08 R98 in P-99-387, approved at SMG#29	Correction of VGCS target mode
		CR A548 to TS 04.08 R98 in P-99-387, approved at SMG#29	Wrong application of approved CR on NOTIFICATION/NCH
		CR A618 to TS 04.08 R97 in P-99-601, approved at SMG#30	Correction of Mobile Station Classmark 2 in the Talker Indication message
		CR A1001 to TS 04.08 R97 in NP-000089, approved at NP#7	Addition of cause value #25 "Pre-emption"
		CR A1011 to TS 04.08 R97 in NP-000130, approved at CN#07	Moving NOTIFICATION RESPONSE from MM to GSM RR
[17]	ETSI TS 100 950: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile radio interface layer 3 supplementary services specification; Formats and coding (GSM 04.80 version 7.0.1 Release 1998)".	CR 005r1 to TS 24.080 R99 in NP-000488, approved at CN#9	Message type: Alignment to 24.007 and 24.008
[18]	ETSI EN 301 711: "Digital cellular telecommunications system (Phase 2+) (GSM); User-to-User Signalling (UUS); Stage 3 (GSM 04.87 version 7.0.2 Release 1998)".		

Identity of the specifications which are identical to the table in clause 2.1 of EN 301 515 [1]		Additional CRs to the specification required	
Index	Specification	CR identification in addition to the TS	Purpose
[19]	ETSI TS 100 916: "Digital cellular telecommunications system (Phase 2+); AT command set for GSM Mobile Equipment (ME) (3GPP TS 07.07 version 6.5.0 Release 1997)".	CR 026 to TS 27.007 R99 in TP-000024, approved at T#7	References to ASCII Specifications
		CR 027 to TS 27.007 R99 in TP-000024, approved at T#7	Abbreviations related to ASCII
		CR 028 to TS 27.007 R99 in TP-000024, approved at T#7	Priority indication in +CLCC, List Current Calls
		CR 029 to TS 27.007 R99 in TP-000024, approved at T#7	Indication of priority, sub-address, sub-address type and TS 91/TS92 in +CRC, Cellular Result Codes
		CR 030 to TS 27.007 R99 in TP-000024, approved at T#7	Commands for ASCII
		CR 031 to TS 27.007 R99 in TP-000024, approved at T#7	Commands for eMLPP
		CR 032 to TS 27.007 R99 in TP-000024, approved at T#7	Example for usage of priority
		CR 35 to TS 27.007 R99 in TP-000073, approved at T#8	+CAJOIN also serves to join an ongoing group or a broadcast call
		CR 36 to TS 27.007 R99 in TP-000073, approved at T#8	+CAULEV, the uplink status presentation in a Voice Group Call
		CR 037 to TS 27.007 R99 in TP-000073, approved at T#8	CME ERROR extensions for ASCII Commands
		CR 038 to TS 27.007 R99 in TP-000073, approved at T#8	Correction of the description of the +CRC
		CR 039 to TS 27.007 R99 in TP-000073, approved at T#8	Definition of the abbreviation of MT
		CR 43 to TS 27.007 Rel-4 in TP-000144, approved at T#09	Introduction of a new AT command +CUUS1 to manage User-to-User Information element
		CR 044 to TS 27.007 Rel-4 in TP-000144, approved at T#09	Indication of priority and/or sub-address in the unsolicited result code CCWA
		CR 045 to TS 27.007 Rel-4 in TP-000144, approved at T#09	eMLPP SIM Commands
CR 046 to TS 27.007 Rel-4 in TP-000144, approved at T#09	VBS, VGCS SIM Commands		
CR 047 to TS 27.007 Rel-4 in TP-000144, approved at T#09	Extension of dial command for VBS and VGCS		
[20]	ETSI TS 129 002: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Mobile Application Part (MAP) specification (3G TS 29.002 version 3.5.2 Release 1999)".		

Identity of the specifications which are identical to the table in clause 2.1 of EN 301 515 [1]		Additional CRs to the specification required	
Index	Specification	CR identification in addition to the TS	Purpose
[21]	ETSI EN 300 925: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Group Call Service (VGCS) - Stage 1 (GSM 02.68 version 7.0.2 Release 1998)".	CR A013 to TS 02.68 R00 in P-00-304, approved at SMG#32	Introduction of Originator-to-dispatcher information into VGCS
[22]	ETSI EN 300 926: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS) - Stage 1 (GSM 02.69 version 8.0.1 Release 1999)".	CR A014 to TS 02.69 P-00-304, approved at SMG#32	Introduction of Originator-to-dispatcher information into VBS
[23]	ETSI EN 300 904: "Digital cellular telecommunications system (Phase 2+) (GSM); Bearer Services (BS) supported by a GSM Public Land Mobile Network (PLMN) (GSM 02.02 version 6.1.1 Release 1997)".		
[24]	ETSI TS 100 905: "Digital cellular telecommunications system (Phase 2+) (GSM); Teleservices supported by a GSM Public Land Mobile Network (PLMN) (GSM 02.03 version 7.0.0 Release 1998)".		
[25]	ETSI EN 300 919: "Digital cellular telecommunications system (Phase 2+) (GSM); Types of Mobile Stations (MS) (GSM 02.06 version 7.0.1 Release 1998)".		
[26]	ETSI TS 100 906: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Stations (MS) features (GSM 02.07 version 7.1.0 Release 1998)".		
[27]	ETSI EN 300 924: "Digital cellular telecommunications system (Phase 2+) (GSM); enhanced Multi-Level Precedence and Pre-emption service (eMLPP) - Stage 1 (GSM 02.67 version 7.0.1 Release 1998)".		
[28]	ETSI TS 100 625: "Digital cellular telecommunications system (Phase 2+) (GSM); Unstructured Supplementary Service Data (USSD) - Stage 1 (GSM 02.90 version 7.0.0 Release 1998)".		
[29]	ETSI TS 100 522: "Digital cellular telecommunications system (Phase 2+) (GSM); Network architecture (GSM 03.02 version 7.1.0 Release 1998)".		
[30]	ETSI TR 101 631: "Digital cellular telecommunications system (Phase 2+) (GSM); Technical performance objectives (GSM 03.05 version 8.0.0 Release 1999)".		
[31]	ETSI TS 100 549: "Digital cellular telecommunications system (Phase 2+) (GSM); Unstructured Supplementary Service Data (USSD) - Stage 2 (GSM 03.90 version 7.0.0 Release 1998)".		
[32]	ETSI EN 300 947: "Digital cellular telecommunications system (Phase 2+) (GSM); enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 (GSM 04.67 version 7.0.1 Release 1998)".		
[33]	ETSI EN 300 957: "Digital cellular telecommunications system (Phase 2+) (GSM); Unstructured Supplementary Service Data (USSD); Stage 3 (GSM 04.90 version 7.0.1 Release 1998)".		
[34]	ETSI EN 300 952: "Digital cellular telecommunications system (Phase 2+) (GSM); Call Forwarding (CF) supplementary services; Stage 3 (GSM 04.82 version 7.0.2 Release 1998)".		
[35]	ETSI EN 300 910: "Digital cellular telecommunications system (Phase 2+) (GSM); Radio transmission and reception (GSM 05.05 version 6.7.1 Release 1997)".		
[36]	ETSI TS 101 267: "Digital cellular telecommunications system (Phase 2+) (GSM); Specification of the SIM Application Toolkit for the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface (GSM 11.14 version 8.3.0 Release 1999)".		

## 4.2 CRs originated by EP RT

Table 2 gives the list of CRs which are originated by EP RT. The first and second columns of table 2 are identical to the table of clause 2.1 in EN 301 515 [1]. They are used to identify the TS to which additional CRs are required. The subsequent columns describe the required CRs if any.

**Table 2: CRs originated by EP RT**

Identity of the specifications which are identical to the table in clause 2.1 of EN 301 515 [1]		Additional CRs to the specification required	
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[1]	ETSI TS 100 590: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile-services Switching Centre - Base Station System (MSC - BSS) interface; Layer 3 specification (GSM 08.08 version 8.5.0 Release 1999)".	CR A248 to TS 08.08 R99 in GP-032139, approved at GERAN#16	Correction of uplink release management
[2]	ETSI TS 100 607-1: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station (MS) conformance specification; Part 1: Conformance specification (GSM 11.10-1 version 8.2.0 Release 1999)".		
[3]	ETSI TS 100 929: "Digital cellular telecommunications system (Phase 2+) (GSM); Security related network functions (GSM 03.20 version 8.0.0 Release 1999)".		
[4]	ETSI TS 100 933: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Group Call Service (VGCS); Stage 2 (GSM 03.68 version 8.2.0 Release 1999)".	CR A038 to TS 03.68 R99 in NP-030407, approved at CN#21	Correction to definition of Group-ID, Group call area ID and Group Call Reference
		CR 007 to TS 43.068 Rel-5 in NP-020383, approved at CN#17	ASCI VGCS call termination by dispatchers using DTMF
		CR 008r4 to TS 43.068 Rel-5 in NP-020675, approved at CN#18	MS late entry notification
		CR 009r1 to TS 43.068 Rel-4 in NP-030408, approved at CN#21	Correction of uplink release management
		CR 013r1 to TS 43.068 Rel-5 in NP-030409, approved at CN#21	Correction to MS Late Entry description
		CR 014r2 to TS 43.068 Rel-6 in NP-030410, approved at CN#21	Dispatcher signalled mute/unmute of talkers downlink and correction and update of incorrect implementation of CR 03.68 A022
[5]	ETSI TS 100 934: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".	CR A027r1 to TS 03.69 R99 in NP-030407, approved at CN#21	Correction to definition of Group-ID, Group call area ID and Group Call Reference
		CR 006 to TS 43.069 Rel-5 in NP-020383, approved at CN#17	ASCI VBS call termination by dispatchers using DTMF
		CR 007r4 to TS 43.069 Rel-5 in NP-020676, approved at CN#18	MS late entry notification
		CR 010r1 to TS 43.069 Rel-5 in NP-030409, approved at CN#21	Correction to MS Late Entry description
[6]	ETSI TS 100 948: "Digital cellular telecommunications system (Phase 2+) (GSM); Group Call Control (GCC) protocol (GSM 04.68 version 8.1.0 Release 1999)".		
[7]	ETSI TS 100 949: "Digital cellular telecommunications system (Phase 2+) (GSM); Broadcast Call Control (BCC) protocol (GSM 04.69 version 8.1.0 Release 1999)".		

Identity of the specifications which are identical to the table in clause 2.1 of EN 301 515 [1]		Additional CRs to the specification required	
Index	Specification	CR identification in addition to the TS	Purpose
[8]	ETSI TS 100 977: "Digital cellular telecommunications system (Phase 2+) (GSM); Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface (GSM 11.11 version 8.3.0 Release 1999)".		
[9]	ETSI EN 300 918: "Digital cellular telecommunications system (Phase 2+) (GSM); General on supplementary services (GSM 02.04 version 7.1.2 Release 1998)".	CR010 to TS 22.004 Rel-4 in SP-040283, approved at SA#24	Modification of table A.1 required to remove wrong SS applicabilities to VG Services
[10]	ETSI TS 122 030: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Man-Machine Interface (MMI) of the User Equipment (UE) (3G TS 22.030 version 3.3.0 Release 1999)".		
[11]	ETSI EN 301 702: "Digital cellular telecommunications system (Phase 2+) (GSM); User-to-User Signalling (UUS); Service description, Stage 1 (GSM 02.87 version 7.1.2 Release 1998)".		
[12]	ETSI TS 122 094: "Digital cellular telecommunications system (Phase 2+) (GSM) - Universal Mobile Telecommunications System (UMTS); Follow Me Service description - Stage 1 (3G TS 22.094 version 3.1.0 Release 1999)".	CR003 to TS 22.094 Rel-6 in SP-030699, approved at SA#22	Notify of forced erasure to initiating subscriber A
[13]	ETSI TS 100 932: "Digital cellular telecommunications system (Phase 2+) (GSM); enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 2 (3GPP TS 03.67 version 7.1.0 Release 1998)".		
[14]	ETSI EN 301 710: "Digital cellular telecommunications system (Phase 2+) (GSM); User-to-User Signalling (UUS); Stage 2 (GSM 03.87 version 7.0.2 Release 1998)".		
[15]	ETSI TS 123 094: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Follow-Me (FM) - Stage 2 (3GPP TS 23.094 version 3.2.0 Release 1999)".	CR003r1 to TS 23.094 in NP-030517, approved at CN#22	Notify of forced erasure to previously registered subscriber of his deregistration
[16]	ETSI EN 300 940: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile radio interface layer 3 specification (GSM 04.08 version 6.3.1 Release 1997)".		
[17]	ETSI TS 100 950: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile radio interface layer 3 supplementary services specification; Formats and coding (GSM 04.80 version 7.0.1 Release 1998)".		
[18]	ETSI EN 301 711: "Digital cellular telecommunications system (Phase 2+); User-to-User Signalling (UUS); Stage 3 (GSM 04.87 version 7.0.2 Release 1998)".		
[19]	ETSI TS 100 916: "Digital cellular telecommunications system (Phase 2+); AT command set for GSM Mobile Equipment (ME) (3GPP TS 07.07 version 6.5.0 Release 1997)".		
[20]	ETSI TS 129 002: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Mobile Application Part (MAP) specification (3G TS 29.002 version 3.5.2 Release 1999)".	CR 538r2 to TS 29.002 R99 in NP-030100, approved at CN#19 CR 661 to TS 29.002 R99 in NP-030379, approved at CN#21	Signalling only Handover Correction of encoding description of Group-Id
[21]	ETSI EN 300 925: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Group Call Service (VGCS) - Stage 1 (GSM 02.68 version 7.0.2 Release 1998)".		
[22]	ETSI EN 300 926: "Digital cellular telecommunications system (Phase 2+) (GSM); Voice Broadcast Service (VBS) - Stage 1 (GSM 02.69 version 8.0.1 Release 1999)".		
[23]	ETSI EN 300 904: "Digital cellular telecommunications system (Phase 2+) (GSM); Bearer Services (BS) supported by a GSM Public Land Mobile Network (PLMN) (GSM 02.02 version 6.1.1 Release 1997)".		

Identity of the specifications which are identical to the table in clause 2.1 of EN 301 515 [1]		Additional CRs to the specification required	
Index	Specification	CR identification in addition to the TS	Purpose
[24]	ETSI TS 100 905: "Digital cellular telecommunications system (Phase 2+) (GSM); Teleservices supported by a GSM Public Land Mobile Network (PLMN) (GSM 02.03 version 7.0.0 Release 1998)".		
[25]	ETSI EN 300 919: "Digital cellular telecommunications system (Phase 2+) (GSM); Types of Mobile Stations (MS) (GSM 02.06 version 7.0.1 Release 1998)".		
[26]	ETSI TS 100 906: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Stations (MS) features (GSM 02.07 version 7.1.0 Release 1998)".		
[27]	ETSI EN 300 924: "Digital cellular telecommunications system (Phase 2+) (GSM); enhanced Multi-Level Precedence and Pre-emption service (eMLPP) - Stage 1 (GSM 02.67 version 7.0.1 Release 1998)".		
[28]	ETSI TS 100 625: "Digital cellular telecommunications system (Phase 2+) (GSM); Unstructured Supplementary Service Data (USSD) - Stage 1 (GSM 02.90 version 7.0.0 Release 1998)".		
[29]	ETSI TS 100 522: "Digital cellular telecommunications system (Phase 2+) (GSM); Network architecture (GSM 03.02 version 7.1.0 Release 1998)".		
[30]	ETSI TR 101 631: "Digital cellular telecommunications system (Phase 2+) (GSM); Technical performance objectives (GSM 03.05 version 8.0.0 Release 1999)".		
[31]	ETSI TS 100 549: "Digital cellular telecommunications system (Phase 2+) (GSM); Unstructured Supplementary Service Data (USSD) - Stage 2 (GSM 03.90 version 7.0.0 Release 1998)".		
[32]	ETSI EN 300 947: "Digital cellular telecommunications system (Phase 2+) (GSM); enhanced Multi-Level Precedence and Pre-emption service (eMLPP); Stage 3 (GSM 04.67 version 7.0.1 Release 1998)".		
[33]	ETSI EN 300 957: "Digital cellular telecommunications system (Phase 2+) (GSM); Unstructured Supplementary Service Data (USSD); Stage 3 (GSM 04.90 version 7.0.1 Release 1998)".		
[34]	ETSI EN 300 952: "Digital cellular telecommunications system (Phase 2+) (GSM); Call Forwarding (CF) supplementary services; Stage 3 (GSM 04.82 version 7.0.2 Release 1998)".		
[35]	ETSI EN 300 910: "Digital cellular telecommunications system (Phase 2+) (GSM); Radio transmission and reception (GSM 05.05 version 6.7.1 Release 1997)".		
[36]	ETSI TS 101 267: "Digital cellular telecommunications system (Phase 2+) (GSM); Specification of the SIM Application Toolkit for the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface (GSM 11.14 version 8.3.0 Release 1999)".		

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## History

<b>Document history</b>		
V1.0.0	September 2004	Publication