ETSI TS 102 281 V2.2.0 (2011-12)



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

Reference RTS/RT-00016 Keywords GSM,GSM-R, R-GSM, UIC

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Railway Telecommunications (RT).

1 Scope

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

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at http://docbox.etsi.org/Reference.

NOTE: While any hyperlinks included in this clause were valid at the time of publication ETSI cannot guarantee their long term validity.

2.1 Normative references

The following referenced documents are necessary for the application of the present document.

[1] ETSI EN 301 515 (V2.3.0): "Global System for Mobile communication (GSM); Requirements for GSM operation on railways".

2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

Not applicable.

3 Abbreviations

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

3GPP Third Generation Partnership Project

CR Change Request

ASCI Advanced Speech Call Items

AT ATtention

BSSAP Base Station Subsystem Application Protocol

CCWA Control of Call WAiting
DTMF Dual-Tone Multi-Frequency
FFN Follow me Function Node

IMSI International Mobile Subscriber Identity

NCH Notification CHannel

OTDI Originator-To-Dispatcher Information

PCH Paging CHannel
SMS Short Message Service
SS Supplementary Service
SSN Sub-System Number
VGCS Voice Group Call Services

4 CRs required for operation of GSM on Railways to be added to the normative references of EN 301 515

GSM on Railways is fully specified by all the GSM/3GPP TSs listed as normative references of EN 301 515 [1], clause 2.1, and by all the CRs listed in the present document.

This present clause 4 lists the CRs as well as a short description of each CR.

Table 1 contains the CRs applicable to the TSs already listed as normative references of EN 301 515 [1], while table 2 contains the CRs applicable to TSs not (yet) listed as normative references of EN 301 515 [1].

All the CRs listed here can be found as attachments to the present document.

NOTE: The 3GPP/SMG CR 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/.

4.1 CRs applicable to the TSs already listed as normative references of EN 301 515

For each TS listed as a normative reference of EN 301 515 [1], table 1 lists the CRs necessary for GSM R operation. Where a newer version of the TS was produced from that listed in EN 301 515 [1], the table also identifies the latest applicable release 99 version of the TS.

The first and second columns (Index and Specification) of table 1 are identical to the table of clause 2.1 in EN 301 515 [1]. Where the specification has been renumbered in Releases post Rel-99, the corresponding specification for Rel-4 and later is also provided for information.

The third and fourth columns identify the required CRs and their purpose. Where the specification was updated in Release 99 to a later version of that which is listed in EN 301 515 [1], the latest Release 99 version is shown in column 3/4.

Table 1: CRs required for GSM R operation that are applicable to the TSs already listed as normative references of EN 301 515 [1]

I	dentification of the specifications as per clause 2.1 of EN 301 515 [1]	Applicable CRs and/or latest release 99 version	
Index	Specification Specification	Applicable CR	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)". For information, becoming in Rel-4 and later:	ETSI TS 100 590: "Digital telecommunications syste services Switching Centre (MSC - BSS) interface; La (3GPP TS 08.08 version 8	m (Phase 2+); Mobile- e - Base Station System ayer 3 specification
	ETSI TS 148 008: "Digital cellular telecommunications system (Phase 2+); Mobile Switching Centre - Base Station system (MSC-BSS) interface; Layer 3 specification (3GPP	CR 149 to 48.008 Rel-6 in GP-050260, approved at GP-23	Group Call Reference handling by the MSC
	TS 48.008)".	CR 151r3 to 48.008 Rel-6 in GP-050855, approved at GP-24	Correction of VGCS uplink seize description
		CR 266 to 48.008 Rel-8 in GP-081196, approved at GP-39	Correction to Uplink Request Confirmation
[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)".	ETSI TS 100 607-1: "Digit telecommunications syste Station (MS) conformance Conformance specification (3GPP TS 11.10-1 version	m (Phase 2+); Mobile e specification; Part 1: n
[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)".	ETSI TS 100 929: "Digital telecommunications syste related network functions (3GPP TS 03.20 version 8	cellular m (Phase 2+); Security-

le	dentification of the specifications as per clause 2.1 of EN 301 515 [1]	Applicable CRs and/or	latest release 99 version
Index	Specification	Applicable CR	Purpose
[4]	ETSI TS 100 933: "Digital cellular telecommunications	ETSI TS 100 933: "Digita	
ניין	system (Phase 2+) (GSM); Voice Group Call Service	telecommunications syste	
	(VGCS); Stage 2 (GSM 03.68 version 8.2.0 Release 1999)".	Group Call Service (VGC	
	For information, becoming in Rel-4 and later:	(3GPP TS 03.68 version	
	ETSI TS 143 068: "Digital cellular telecommunications	CR A023 to TS 03.68	Introduction of OTDI
	system (Phase 2+); Voice Group Call Service (VGCS);	Rel-4 in P-00-255,	(Originator-To-
	Stage 2 (3GPP TS 43.068)".	approved at SMG#32	Dispatcher Information
			into VGCS)
		CR 007 to TS 43.068	ASCI VGCS call
		Rel-5 in NP-020383,	termination by
		approved at CN#17	dispatchers using DTMF
		CR 008r4 to TS 43.068	MS late entry notification
		Rel-5 in NP-020675,	
		approved at CN#18	
		CR 009r1 to TS 43.068	Correction of uplink
		Rel-4 in NP-030408,	release management
		approved at CN#21	reiouee management
		CR 013r1 to TS 43.068	Correction to MS Late
		Rel-5 in NP-030409,	Entry description
		approved at CN#21	Littly description
		CR 014r2 to TS 43.068	Dispatcher signalled
		Rel-6 in NP-030410,	mute/unmute of talkers
		T	
		approved at CN#21	downlink and correction
			and update of incorrect
			implementation of
		00 400474 40 000	CR 03.68 A022
		CR A0017 to 43.068	Correction on
		Rel-4 in NP-040373,	notification for first talker
		approved at CN#25	of VGCS call Correction
			on notification for first
			talker of VGCS call
			Correction on
			notification for first talker
			of VGCS call
		CR A0029 to 43.068	Correction of the
		Rel-4 in NP-050067,	conditions for
		approved at CN#27	establishment of a voice
			group call
		CR A0036 to 43.068	Inter-PLMN Group Call
		Rel-6 in NP-050076,	notification for
		approved at CN#27	dispatchers
		CR 46r1 to 43.068	Clarification of the role
		Rel-6 in CP-050361,	of the anchor MSC.
		approved at CP-29	
		CR 68 to 43.068	Editorial corrections
		Rel-7 in CP-050549,	(corrections of
		approved at CP-30	misspelling, grammatical
			errors, etc.)
		CR 72r2 to 43.068	Correction of muting/un-
		Rel-6 in CP-060113,	muting procedure
		approved at CP-31	
		CR 76r1 to 43.068	Modification of
		Rel-7 in CP-060122,	conditions for VGCS call
		approved at CP-31	establishment
		CR 80r1 to 43.068	Corrections and
		Rel-7 in CP-060122,	clarifications to the
		approved at CP-31	procedures for releasing
		approved at CF-31	the calling service
			subscribers dedicated
			connection to the anchor
		OD 04 14 1 10 000	MSC
		CR 81r1 to 43.068	Correction/ clarification
		Rel-7 in CP-060122,	of voice group call
		approved at CP-31	termination procedures
		CR 85 to 43.068	Add signalling flow for a

le	dentification of the specifications as per clause 2.1 of EN 301 515 [1]	Applicable CRs and/or I	atest release 99 version
Index	Specification	Applicable CR	Purpose
		Rel-7 in CP-060272,	dispatcher originated
		approved at CP-32	VGCS
		CR 94 to 43.068	Correction of Figure 6
		Rel-7 in CP-060276,	
		approved at CP-32	
		CR 97r2 to 43.068	Failure cases during
		Rel-7 in CP-060464,	VGCS call
		approved at CP-33	establishment
		CR 128 to 43.068	Definition of BSSAP
		Rel-6 in CP-070131,	procedure for release of
		approved at CP-35	VGCS call controlling connections
		CR 131r1 to 43.068 Rel-	Silent (re-)joining
		7 in CP-070376,	dispatcher, immediately
		approved at CP-36	talking dispatcher
		CR 133 to 43.068	Definition of BSSAP
		Rel-8 in CP-070371,	procedure for release of
		approved at CP-36	VGCS call controlling connections
		CR 141 to 43.068	Correction to process
		Rel-8 in CP-070604,	VGCS_Handling_Relay_
		approved at CP-37	MSC
		CR 145r1 to 43.068 Rel-	Clean up of the
		7 in CP-080123,	requirement of sending
		approved at CP-39	SMS to non established group calls
		CR 147r1 to 43.068 Rel-	Clarification of the
		8 in CP-080129,	channel to be used for
		approved at CP-39	uplink access
		CR 150 to 43.068	Clarification of
		Rel-8 in CP-080361,	conditions for start and
		approved at CP-40	stop of voice inactivity
		approved at or 40	timer
		CR 148 to 43.068	Warning tone for call
		Rel-8 in CP-080136 (C1-	termination due to time
		080453/RT-08010r1),	out of voice inactivity
		approved at CP-39	time
[5]	ETSI TS 100 934: "Digital cellular telecommunications	ETSI TS 100 934: "Digital	
	system (Phase 2+) (GSM); Voice Broadcast Service (VBS);	telecommunications syste	
	Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".		Stage 2 (3GPP TS 03.69
	For information, becoming in Rel-4 and later:	version 8.5.0 Release 199	
	ETSI TS 143 069: "Digital cellular telecommunications	CR A016 to TS 03.69	Introduction of OTDI
	system (Phase 2+); Voice Broadcast service (VBS); Stage 2	Rel-4 in P-00-255,	(Originator-To-
	(3GPP TS 43.069)".	approved at SMG#32	Dispatcher Information
			into VBS)
		CR 006 to TS 43.069	ASCI VBS call
		Rel-5 in NP-020383,	termination by
		approved at CN#17	dispatchers using DTMF
		CR 007r4 to TS 43.069	MS late entry notification
		Rel-5 in NP-020676,	me late only from caller
		approved at CN#18	
		CR 010r1 to TS 43.069	Correction to MS Late
		Rel-5 in NP-030409,	Entry description
		approved at CN#21	Liniy Goodiphon
		CR A0012 to 43.069	Correction on
		Rel-4 in NP-040373,	notification procedures
		approved at CN#25	for Originator of VBS call
			Inter-PLMN Broadcast
		CR A0023 to 43.069	Call notification for
		Rel-6 in NP-050076,	
		approved at CN#27	dispatchers
		CR 29r1 to 43.069 Rel-7	Correction/ clarification
		in CP-060162, approved	of voice broadcast call
		at CP-31	release procedures
		CR 77r2 to 43.069	Modification of

I	dentification of the specifications as per clause 2.1 of EN 301 515 [1]	Applicable CRs and/or	atest release 99 version
Index	Specification	Applicable CR	Purpose
		Rel-7 in CP-060126,	conditions for VBS call
		approved at CP-31	establishment
		CR 79 to 43.069	Add signalling flow for a
		Rel-7 in CP-060276,	dispatcher originated
		approved at CP-32	VBS
		CR 81r1 to 43.069	Including IMSI in
		Rel-7 in CP-060276,	Send_Group_Call_End_
		approved at CP-32	Signal message for VBS
		CR 82 to 43.069	Correction to process
		Rel-7 in CP-060276,	VBS_Handling_Relay_M
		approved at CP-32	SC
		CR 86r1 to 43.069	Failure cases during
		Rel-7 in CP-060506,	VBS call establishment
		approved at CP-33	
		CR 88 to 43.069	Correction of PCH
		Rel-6 in CP-060457,	re-organisation
		approved at CP-33	notification
		CR 104 to 43.069	Definition of BSSAP
		Rel-6 in CP-070131,	procedure for release of
		approved at CP-35	VBS call controlling
		00.050.4.4.4.040.0.1	connections
		CR 659r1 to 44.018 Rel-	Inclusion of Priority
		8 in GP-080353,	Uplink Access in
	ETOL TO 400 040 HD: 'k H L L	approved at GP-37	Notification/NCH
[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)". For information, becoming in Rel-4 and later:	CR A025 to TS 04.68	Introduction of OTDI
		Rel-4 in P-00-255,	(Originator-To-
		approved at SMG#32	Dispatcher Information into VGCS)
	ETSI TS 144 068: "Digital cellular telecommunications	CR 001 to TS 44.068	The repetition of the
	system (Phase 2+); Group Call Control (GCC) protocol	Rel-4 in NP-000449,	priority in the Call
	(3GPP TS 44.068)".	approved at NP#09	Reference IE in the
	(0011 10 44.000) .	approved at IVI #03	SETUP message
		CR 002 to TS 44.068	Clarification of the
		Rel-4 in NP-010269,	coding of OTDI
		approved at CN#12	information in IA5 format
		CR 12 to 44.068	Increase VGCS setup
		Rel-7 in CP-060506,	timeout (MS timer
		approved at CP-33	TMM-est)
[7]	ETSI TS 100 949: "Digital cellular telecommunications	CR A022 to TS 04.69	Introduction of OTDI
	system (Phase 2+) (GSM); Broadcast Call Control (BCC)	Rel-4 in P-00-255,	(Originator-To-
	protocol (GSM 04.69 version 8.1.0 Release 1999)".	approved at SMG#32	Dispatcher Information
	For information, becoming in Rel-4 and later:		into VBS)
	ETSI TS 144 069: "Digital cellular telecommunications	CR 001 to TS 44.069	The repetition of the
	system (Phase 2+); Broadcast Call Control (BCC) protocol	Rel-4 in NP-000449,	priority in the Call
	(3GPP TS 44.069)".	approved at CN#9	Reference IE in the
			SETUP message
		CR 002 to TS 44.069	Clarification of the
		Rel-4 in NP-010269,	coding of OTDI
		approved at CN#12	information in IA5 format
		CR 5 to 44.069	Increase VBS setup
		Rel-7 in CP-060506,	timeout (MS timer
		approved at CP-33	TMM-est)
[8]	ETSI TS 100 977: "Digital cellular telecommunications	ETSI TS 100 977: "Digital	
	system (Phase 2+) (GSM); Specification of the Subscriber	telecommunications syste	
	Identity Module - Mobile Equipment (SIM - ME) interface	Specification of the Subsc	
	(GSM 11.11 version 8.3.0 Release 1999)".	Mobile Equipment (SIM -	
		(3GPP TS 11.11 version 8	8.14.0 Release 1999)".

le	dentification of the specifications as per clause 2.1 of EN 301 515 [1]	Applicable CRs and/or I	atest release 99 version
Index	Specification	Applicable CR	Purpose
[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)".	ETSI TS 122 004: "Digital telecommunications syste Mobile Telecommunicatio General on Supplementar (3GPP TS 22.004 version CR010 to TS 22.004 Rel-4 in SP-040283, approved at SA#24	cellular m (Phase 2+);Universal ns System (UMTS); y Services
[10]	ETSI TS 122 030: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile	ETSI TS 122 030: "Digital telecommunications syste	Voice Group Services cellular
	Telecommunications System (UMTS); Man-Machine Interface (MMI) of the User Equipment (UE) (3G TS 22.030 version 3.3.0 Release 1999)".	Universal Mobile Telecom (UMTS); Man-Machine Int Equipment (UE) (3G TS 2 Release 1999)".	munications System erface (MMI) of the User 2.030 version 3.4.0
[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)".	ETSI TS 122 087 "Digital telecommunications syste (GSM);Universal Mobile T System (UMTS);User-to-UUS);Service description version 3.1.0 Release 199	m (Phase 2+) felecommunications Jser Signalling - Stage 1 (3G TS 22.087 19)".
[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)".	ETSI TS 123 067: "Digital telecommunications syste (GSM);Universal Mobile T System (UMTS); Enhance Precedence and Preempt Stage 2 (3GPP TS 23.067 version	m (Phase 2+) felecommunications ed Multi-Level ion Service (EMLPP);
[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)".	ETSI TS 123 087: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); User-to-user signalling (UUS) Supplementary Service - Stage 2 (3GPP TS 23.087 version 3.1.0 Release 1999)".	
[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 Rel-6 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)".	ETSI TS 124 008: "Digital telecommunications syste Mobile Telecommunicatio Mobile radio interface Lay network protocols; Stage (3GPP TS 24.008 version	m (Phase 2+); Universal ns System (UMTS); er 3 specification; Core 3 3.20.0 Release 1999).
[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)".	ETSI TS 124 080: "Digital telecommunications syste Mobile Telecommunicatio Mobile radio layer 3; supp specification; Formats and (3GPP TS 24.080 V3.7.1	m (Phase 2+); Universal ns System (UMTS); lementary service d coding Release 1999)".
[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)".	ETSI TS 124 087: "Digital telecommunications syste (GSM);Universal Mobile T System (UMTS); User-to-Supplementary Service - 3 (3G TS 24.087 version 3.0	m (Phase 2+) Telecommunications User Signalling (UUS) Stage3

I	dentification of the specifications as per clause 2.1 of EN 301 515 [1]	Applicable CRs and/or I	atest release 99 version
Index	Specification	Applicable CR	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)".	ETSI TS 127 007: "Digital telecommunications syste Universal Mobile Telecom (UMTS); LTE; AT comma Equipment (UE) (3GPP TS 27.007 V3.14.0 CR 43 to TS 27.007 Rel-4 in TP-000144, approved at T#09 CR 044 to TS 27.007 Rel-4 in TP-000144, approved at T#09	cellular em (Phase 2+) (GSM); emunications System end set for User Discrete Release 1999)". Introduction of a new AT command+CUUS1 to manage User-to-User Information element Indication of priority and/or sub-address in the unsolicited result
		CR 045 to TS 27.007 Rel-4 in TP-000144, approved at T#09 CR 046 to TS 27.007 Rel-4 in TP-000144, approved at T#09 CR 047 to TS 27.007 Rel-4 in TP-000144,	code CCWA eMLPP SIM Commands VBS, VGCS SIM Commands Extension of dial command for VBS and
[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)".	approved at T#09 ETSI TS 129 002: "Digital telecommunications syste Mobile Telecommunication Part (N (3GPP TS 29.002 version CR 814 to 29.002 Rel-7 in CP-060316, approved at CP-32	m (Phase 2+); Universal ns System (UMTS); MAP) specification
[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)". For information, becoming in Rel-4 and later: ETSI TS 142 068: "Digital cellular telecommunications system (Phase 2+); Voice Group Call Service (VGCS); Stage 1 (3GPP TS 42.068)".	ETSI TS 100 925: "Digital telecommunications syste Group Call Service (VGC) (3GPP TS 02.68 version 8 CR A013 to TS 02.68 Rel-4 in P-00-304, approved at SMG#32 CR 19 to 42.068 Rel-7 in SP-060026, approved at SP-31 CR 33 to 42.068 Rel-8 in SP-060774, approved at SP-34 CR 37r1 to 42.068 Rel-8 in SP-070645, approved at SP-37	em (Phase 2+); Voice S); Stage 1

I	dentification of the specifications as per clause 2.1 of EN 301 515 [1]	Applicable CRs and/or	atest release 99 version
Index	Specification	Applicable CR	Purpose
[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)". For information, becoming in Rel-4 and later:	ETSI TS 100 926: "Digital telecommunications systematics."	cellular em (Phase 2+); Voice Stage 1 (3GPP TS 02.69
	ETSI TS 142 069: "Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 1 (3GPP TS 42.069)".	CR A014 to TS 02.69 Rel-4 in P-00-304, approved at SMG#32	Introduction of Originator-to-dispatcher information into VBS
		CR 6 to 42.069 Rel-7 in SP-060028, approved at SP-31 CR 8 to 42.069	Modification to setup to remove the need for full conditions Correction on the use of
		Rel-8 in SP-060775, approved at SP-34 CR 10r1 to 42.069	listening service subscriber Clarification of
[00]		Rel-8 in SP-070644, approved at SP-37	interactions with supplementary and other GSM services
[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)".	a Public Land Mobile Net 22.002 version 3.6.0 Rele	em (Phase 2+) (GSM); nmunications System ervices (BS) supported by work (PLMN) (3GPP TS ease 1999)".
[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)".	ETSI TS 122 003: "Digital telecommunications syste Universal Mobile Telecom (UMTS); Circuit Teleservi Land Mobile Network (PL v.3.3.0 Release 1999)".	em (Phase 2+) (GSM); nmunications System ces supported by a Public
[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)". Note: TS 02.07 abandoned in Rel-99: the text was transferred to TS 22.001 and TS 22.101.	ETSI TS 122 001: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Principles of Circuit Telecommunication Services supported by a Public Land Mobile Network (PLMN) (3G TS 22.001 v.3.2.0 Release 1999)". ETSI TS 122 101: "Universal Mobile Telecommunication System (UMTS); Service Aspects; Service Principles (3GPP TS 22 101 v.3.17.0 Release 1999)".	
[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)".	ETSI EN 122 067: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); enhanced Multi Level Precedence and Pre emption service (eMLPP) Stage 1 (3G TS 22.067 version 3.0.1 Release 1999)".	
[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)".	(USSD) - Stage 1 (3G TS Release 1999)".	em (Phase 2+) (GSM); nmunications System pplementary Service Data 22.090 version 3.1.0
[29]	ETSI TS 100 522: "Digital cellular telecommunications system (Phase 2+) (GSM); Network architecture (GSM 03.02 version 7.1.0 Release 1998)".	ETSI TS 123 002: "Digital telecommunications system Mobile Telecommunication Network Architecture (3GPP TS 23.002 version	em (Phase 2+); Universal ns System (UMTS);
[30]	ETSI TR 101 631: "Digital cellular telecommunications system (Phase 2+) (GSM); Technical performance objectives (GSM 03.05 version 8.0.0 Release 1999)".		

Į.	dentification of the specifications as per clause 2.1 of EN 301 515 [1]	Applicable CRs and/or la	atest release 99 version
Index	Specification	Applicable CR	Purpose
[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)".	ETSI TS 123 090: "Digital telecommunications system Universal Mobile Telecom (UMTS); Unstructured Sup (USSD) - Stage 2 (3GPP TS 23.090 V3.2.0 I	m (Phase 2+) (GSM); munications System oplementary Service Data
[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)".	ETSI TS 124 067: "Digital telecommunications systel Universal Mobile Telecom (UMTS); enhanced Multi-L Pre-emption service (eMLI 24.067 V3.2.0 Release 19	m (Phase 2+) (GSM); munications System Level Precedence and PP) - Stage 3 (3GPP TS
[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)".	ETSI TS 124 090: "Digital telecommunications system Universal Mobile Telecom (UMTS); Unstructured Sup (USSD) - Stage 3 (3G TS Release 1999)".	m (Phase 2+) (GSM); munications System oplementary Service Data
[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)".	ETSI TS 124 082: "Digital cellular telecommunications system (Phase 2+) (GSM);	
[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)".	ETSI TS 100 910: "Digital cellular telecommunications system (Phase 2+) (GSM); Radio transmission and reception (3GPP TS 05.05 version 8.20.0 Release 1999)".	
[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)".	ETSI TS 101 267: "Digital telecommunications system as Specification of the SIM Approximation of	m (Phase 2+); pplication Toolkit for the e - Mobile Equipment

4.2 CRs applicable to TSs not yet listed as normative references of EN 301 515

Table 2 lists the CRs necessary for GSM R operation that are applicable to TSs not (yet) listed in EN 301 515 [1].

Table 2: CRs required for GSM R applicable to TSs not yet listed as normative references of EN 301 515

	tification of the specifications impacted by RT-specific CRs not (yet) listed in clause 2.1 of EN 301 515 [1]	Additional CRs or new specification	
Index	Specification	CR identification in addition to the TS	Purpose
51	ETSI TS 100 930: "Digital cellular telecommunications system (Phase 2+); Functions related to Mobile Station (MS) in idle mode and group receive mode; (3GPP TS 03.22 v.8.7.0 Release 1999)". For information, becoming in Rel-4 and later: ETSI TS 143 022: "Digital cellular telecommunications system (Phase 2+); Functions related to Mobile Station (MS) in idle mode and group receive mode (3GPP TS 43.022)".	CR 24r4 to 43.022 Rel-8 in GP-071519, approved at GP-35	Enhanced Cell Reselection for VGCS
52	ETSI TS 101 503: "Digital cellular telecommunications system (Phase 2+) Mobile radio interface layer 3 specification; Radio Resource Control (RRC) Protocol (3GPP TS 04.18 v.8.27.0 Release 1999)". For information, becoming in Rel-4 and later: ETSI TS 144 018: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification; Radio Resource Control (RRC) protocol (3GPP TS 44.018)".	CR 685 to 44.018 Rel-8 in GP-081194, approved at GP-39	Correction to format of SI10ter message

Annex A (informative): Bibliography

ETSI TR 121 900: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE; Technical Specification Group working methods (3GPP TR 21.900)".

History

	Document history			
V1.0.0	September 2004	Publication as TR 102 281		
V2.0.0	May 2006	Publication as TR 102 281		
V2.1.0	June 2010	Publication		
V2.2.0	December 2011	Publication		