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Reference

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Foreword

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

Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the <u>ETSI Drafting Rules</u> (Verbal forms for the expression of provisions).

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1 Scope

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

2 References

2.1 Normative 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.

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] UIC Project EIRENE (European Integrated Railway Radio Enhanced Network): "System Requirements Specification".

2.2 Informative 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.

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

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 ASCI Advanced Speech Call Items

AT ATtention

BSSAP Base Station Subsystem Application Protocol

CCWA Control of Call WAiting

CR Change Request

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

TS Technical Specification VGCS Voice Group Call Services

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

4.0 General conditions

GSM on Railways shall comply to all the CRs listed in the present document in addition to the GSM/3GPP TSs listed as normative references of ETSI EN 301 515 [1], clause 2.1 unless there is a contradiction between a CR listed in table 1 or 2 and a requirement in EIRENE SRS [2], in which case the requirement in EIRENE SRS [2] shall prevail.

Clause 4 of the present document 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 ETSI EN 301 515 [1], while table 2 contains the CRs applicable to TSs not (yet) listed as normative references of ETSI EN 301 515 [1].

The CRs listed here are contained in archive ts_102281v03000p0.zip which accompanies 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 ETSI EN 301 515

For each TS listed as a normative reference of ETSI 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 ETSI 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 ETSI 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 ETSI 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 ETSI EN 301 515 [1]

I	dentification of the specifications as per clause 2.1 of ETSI EN 301 515 [1]	Applicable CRs and/or I	atest release 99 version
Index	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 148 008: "Digital cellular telecommunications system (Phase 2+); Mobile Switching Centre - Base Station system (MSC-BSS) interface; Layer 3 specification (3GPP TS 48.008)".	ETSI TS 100 590: "Digital telecommunications syste services Switching Centre (MSC - BSS) interface; La (3GPP TS 08.08 version & CR 0001 to 48.008 Rel-4 in GP-000034, approved at GP-01	m (Phase 2+); Mobile- - Base Station System yer 3 specification
		Rel-4 in GP-000033, approved at GP-01 CR 0081 to 48.008 Rel-6 in GP-032142, approved at GP-16	precision with VGCS/VBS call Correction of uplink release management

Identification of the specifications as per clause 2.1		Applicable CRs and/or latest release 99 version	
Index	of ETSI EN 301 515 [1] Specification	Applicable CR	Purpose
	оросточного	CR 0114r6 to 48.008	VGCS Queuing and
		Rel-6 in GP-041711,	Pre-emption Handling
		approved at GP-20	
		CR 0120 to 48.008	Incorrect length of group call reference IE
		Rel-6 in GP-040952, approved at GP-19	call reference in
		CR 0149 to 48.008	Group Call Reference
		Rel-6 in GP-050260,	handling by the MSC
		approved at GP-23	
		CR 0151r3 to 48.008	Correction of VGCS
		Rel-6 in GP-050855,	uplink seize description
		approved at GP-24 CR 0187r1 to 48.008	Paging of VGCS/VBS
		Rel-7 in GP-060670,	MS
		approved at GP-29	
		CR 0208r2 to 48.008	Release due to BSS
		Rel-7 in GP-061460,	generated reason for
		approved at GP-30	VGCS/VBS
		CR 0225r1 to 48.008 Rel-7 in GP-070440,	Correction and addition to Paging Information IE
		approved at GP-33	to raging information in
		CR 0228r1 to 48.008	Queuing procedure
		Rel-7 in GP-070443,	clarification
		approved at GP-33	
		CR 0229 to 48.008	Definition of BSSAP
		Rel-7 in GP-070337, approved at GP-33	procedures for release/ refusal of VGCS/VBS
		approved at GF-33	call controlling/ resource
			controlling connections
		CR 0236r2 to 48.008	Corrections to
		Rel-7 in GP-071040,	VGCS/VBS
		approved at GP-34	ASSIGNMENT STATUS msg description
		CR 0244r3 to 48.008	Circuit Identity Code
		Rel-7 in GP-080220,	(CIC) in VGCS/VBS
		approved at GP-37	Assignment Result / Request
		CR 0266 to 48.008	Correction to Uplink
		Rel-8 in GP-081196,	Request Confirmation
		approved at GP-39	
[2]	ETSI TS 100 607-1: "Digital cellular telecommunications	ETSI TS 100 607-1: "Digi	
	system (Phase 2+) (GSM); Mobile Station (MS)	telecommunications system	
	conformance specification; Part 1: Conformance specification (GSM 11.10-1 version 8.2.0 Release 1999)".	Station (MS) conformance Conformance specification	
	For information, becoming in Rel-4 and later:	(3GPP TS 11.10-1 versio	
	ETSI TS 151 010-1: "Digital cellular telecommunications	CR 4917 to TS 51.010-1	ER-GSM updates sec26
	system (Phase 2+); Mobile Station (MS) conformance	Rel-11 in GP-140020	part 1
	specification; Part 1: Conformance specification	approved at GP-61	
	(3GPP TS 51.010-1)".	CR 4913 to TS 51.010-1	ER-GSM updates
		Rel-11 in GP-140079	sec00-sec11
		approved at GP-61 CR 4914 to TS 51.010-1	ER-GSM updates
		Rel-11 in GP-140080	sec12-sec13
		approved at GP-61	
		CR 4915 to TS 51.010-1	ER-GSM updates
		Rel-11 in GP-140081	sec14
		approved at GP-61	ED COM undates
		CR 4916 to TS 51.010-1 Rel-11 in GP-140082	ER-GSM updates sec15-sec20
		approved at GP-61	36613-36620
		CR 4918 to TS 51.010-1	ER-GSM updates
		Rel-11 in GP-140083	sec26 part 2
		approved at GP-61	·

le	Identification of the specifications as per clause 2.1 Applicable CRs and/or latest release 99		atest release 99 version
	of ETSI EN 301 515 [1]		
Index	Specification	Applicable CR	Purpose
		CR 4919 to TS 51.010-1	ER-GSM updates
		Rel-11 in GP-140084	sec26part 3
		approved at GP-61 CR 4920 to TS 51.010-1	ER-GSM updates
		Rel-11 in GP-140085	sec26part 4
		approved at GP-61	Seczopart 4
		CR 4921 to TS 51.010-1	ER-GSM updates
		Rel-11 in GP-140086	sec52
		approved at GP-61	
[3]	ETSI TS 100 929: "Digital cellular telecommunications	ETSI TS 100 929: "Digital	cellular
	system (Phase 2+) (GSM); Security related network	telecommunications syste	
	functions (GSM 03.20 version 8.0.0 Release 1999)".	related network functions	,
	For information, becoming in Rel-4 and later:	(3GPP TS 03.20 version 8	3.6.0 Release 1999)".
	ETSI TS 143 020: "Digital cellular telecommunications		
	system (Phase 2+); Security related network functions		
F 43	(3GPP TS 43.020)".	FT01 T0 400 000 IIB: :: 1	
[4]	ETSLTS 100 933: "Digital cellular telecommunications	ETSI TS 100 933: "Digital	
	system (Phase 2+) (GSM); Voice Group Call Service	telecommunications syste	
	(VGCS); Stage 2 (GSM 03.68 version 8.2.0 Release 1999)". For information, becoming in Rel-4 and later:	Group Call Service (VGCS) (3GPP TS 03.68 version 8	
	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 0001 to TS 43.068	Uplink Release
		Rel-4 in NP-000449,	dataFlow correction
		approved at CN-09	
		CR 0007 to TS 43.068	ASCI VGCS call
		Rel-5 in NP-020383,	termination by
		approved at CN-17	dispatchers using DTMF
		CR 0008r4 to TS 43.068	MS late entry notification
		Rel-5 in NP-020675,	
		approved at CN-18	
		CR 0009r1 to TS 43.068	Correction of uplink
		Rel-4 in NP-030408, approved at CN-21	release management
		CR 0013r1 to TS 43.068	Correction to MS Late
		Rel-5 in NP-030409,	Entry description
		approved at CN-21	Zita y decempaeri
		CR 0014r2 to TS 43.068	Dispatcher signalled
		Rel-6 in NP-030410,	mute/unmute of talkers
		approved at CN-21	downlink and correction
			and update of incorrect
			implementation of
		OD 0047 to TO 40 000	CR 03.68 A022
		CR 0017 to TS 43.068	Correction on
		Rel-4 in NP-040373, approved at CN-25	notification for first talker of VGCS call
		CR 0029 to TS 43.068	Correction of the
		Rel-4 in NP-050067,	conditions for
		approved at CN-27	establishment of a voice
		11	group call
		CR 0036r1 to TS 43.068	Inter-PLMN Group Call
		Rel-6 in NP-050076,	notification for
		approved at CN-27	dispatchers
		CR 0046r1 to TS 43.068	Clarification of the role
		Rel-6 in CP-050361,	of the anchor MSC
		approved at CP-29	Eultradia III.
		CR 0068 to TS 43.068	Editorial corrections
		Rel-7 in CP-050549,	(corrections of
		approved at CP-30	misspelling, grammatical errors, etc.)
		CR 0072r2 to TS 43.068	Correction of muting/un-
		Rel-6 in CP-060113,	muting procedure
		approved at CP-31	
		Tappiored at OI -31	1

lo	dentification of the specifications as per clause 2.1 of ETSI EN 301 515 [1]	Applicable CRs and/or I	atest release 99 version
Index	Specification	Applicable CR	Purpose
		CR 0076r1 to TS 43.068	Modification of
		Rel-7 in CP-060122,	conditions for VGCS call
		approved at CP-31	establishment
		CR 0080r1 to TS 43.068	Corrections and
		Rel-7 in CP-060122,	clarifications to the
		approved at CP-31	procedures for releasing
			the calling service
			subscribers dedicated
			connection to the anchor
			MSC
		CR 0081r1 to TS 43.068	Correction/ clarification
		Rel-7 in CP-060122,	of voice group call
		approved at CP-31	termination procedures
		CR 0085 to TS 43.068	Add signalling flow for a
		Rel-7 in CP-060272,	dispatcher originated
		approved at CP-32	VGCS
		CR 0088r1 to TS 43.068	Clarification on use of
		Rel-7 in CP-060276,	the Uplink Reply
		approved at CP-32	Procedure
		CR 0094 to TS 43.068	Correction of Figure 6
		Rel-7 in CP-060276,	
		approved at CP-32	
		CR 0097r2 to TS 43.068	Failure cases during
		Rel-7 in CP-060464,	VGCS call
		approved at CP-33	establishment
		CR 0103 to TS 43.068	Indicate the originating
		Rel-7 in CP-060464,	relay MSC address to
		approved at CP-33	anchor MSC
		CR 0105r1 to TS 43.068	Extension of Group ID
		Rel-7 in CP-060464,	
		approved at CP-33	O and the art and a
		CR 0114 to TS 43.068	Condition for the
		Rel-7 in CP-060665,	inclusion of parameters
		approved at CP-34	in the GCR interrogation message
		CR 0115 to TS 43.068	Addition of Teleservice
		Rel-7 in CP-060665,	Code to
		approved at CP-34	SendGroupCallInfo
		CR 0116r1 to TS 43.068	Clarifications to the case
		Rel-7 in CP-060664,	when a group ID with 8
		approved at CP-34	digits is used
		CR 0128 to TS 43.068	Definition of BSSAP
		Rel-6 in CP-070131,	procedure for release of
		approved at CP-35	VGCS call controlling
			connections
		CR 0130 to TS 43.068	Retry of the VGCS
		Rel-6 in CP-070376,	Assignment procedure
		approved at CP-36	
		CR 0131r1 to TS 43.068	Silent (re-)joining
		Rel-7 in CP-070376,	dispatcher, immediately
		approved at CP-36	talking dispatcher
		CR 0133 to TS 43.068	Definition of BSSAP
		Rel-8 in CP-070371,	procedure for release of
		approved at CP-36	VGCS call controlling
			connections
		CR 0141 to TS 43.068	Correction to process
		Rel-8 in CP-070604,	VGCS_Handling_Relay_
		approved at CP-37	MSC
		CR 0142 to TS 43.068	Correction to the talker
		Rel-8 in CP-070602,	channel parameter
		approved at CP-37	

	dentification of the specifications as per clause 2.1 of ETSI EN 301 515 [1]		atest release 99 version
Index	Specification	Applicable CR	Purpose
		CR 0145r1 to TS 43.068	Clean up of the
		Rel-7 in CP-080123,	requirement of sending
		approved at CP-39	SMS to non established
			group calls
		CR 0147r1 to TS 43.068	Clarification of the
		Rel-8 in CP-080129,	channel to be used for
		approved at CP-39	uplink access
		CR 0150 to TS 43.068	Clarification of
		Rel-8 in CP-080361,	conditions for start and
		approved at CP-40	stop of voice inactivity
		CD 0454 to TC 42 000	timer
		CR 0151 to TS 43.068	Uplink reply procedure
		Rel-9 in CP-100135,	
		approved at CP-47	1.22.17.0
		CR 0154 to TS 43.068	Initial Talker Information
		Rel-11 in CP-110882,	handling (solving race
		approved at CP-54	conditions)
		CR 0155 to TS 43.068	GCR Transient Data
		Rel-11 in CP-110882,	
		approved at CP-54	
		CR 0168 to TS 43.068	Explicit signalling
		Rel-13 in CP-150329,	mute/unmute for VGCS
		approved at CP-68	
		CR 0003 to TS 43.068	Identification of Group
		Rel-4 in NP-000449,	ID - The longest GID
		approved at NP-09	has to be matched
		CR 0004 to TS 43.068	Call Waiting is not
		Rel-4 in NP-000667,	applicable to an
		approved at NP-10	originator/talker in
		OD 0005 / TO 40 000	dedicated mode
		CR 0005 to TS 43.068	Wrong Field Name for
		Rel-4 in NP-000667,	OTDI
		approved at NP-10	DTME
		CR 0006r1 to TS 43.068	DTMF precision
		Rel-4 in NP-000667,	
		approved at NP-10 CR 0011r1 to TS 43.068	Correction to definition
		Rel-4 in NP-030407,	
		approved at NP-21	of Group-ID, Group call area ID and Group Call
			Reference
		CR 0016r1 to TS 43.068	Correction of PCH re-
		Rel-6 in NP-040203,	organization notification
		approved at NP-24	
		CR 0022r2 to TS 43.068	Group Call Reference
		Rel-6 in NP-040515,	handling by the MSC
		approved at NP-26	during VGCS call establishment
		CR 0024 to TS 43.068	Clarification on
		Rel-6 in NP-040515,	Immediate Setup
		approved at NP-26	procedure
		CR 0041 to TS 43.068	Correction on the use of
		Rel-6 in CP-050057,	calling subscriber and
		approved at CP-28	destination subscriber
		CR 0047r1 to TS 43.068	Error correction
		Rel-7 in CP-050361,	
		approved at CP-29	
		CR 0055 to TS 43.068	Enhancement on the
		Rel-7 in CP-050365,	dedicated channel
		approved at CP-29	Assignment procedure
		CR 0082r2 to TS 43.068	Clarification of the no
		Rel-7 in CP-060122,	activity time
		approved at CP-31	

le	dentification of the specifications as per clause 2.1 of ETSI EN 301 515 [1]	Applicable CRs and/or latest release 99 version	
Index	Specification	Applicable CR	Purpose
		CR 0095 to TS 43.068	Correction of Figure 6a
		Rel-7 in CP-060272,	_
		approved at CP-32	
		CR 0134 to TS 43.068	Alignment of SDLs with
		Rel-8 in CP-070387,	condition for successful
		approved at CP-36	call setup
		CR 0148r1 to TS 43.068	Warning tone for call
		Rel-8 in CP-080136,	termination due to time
		approved at CP-39	out of voice inactivity
			time
		CR 0167 to TS 43.068	Additional Calling Party
		Rel-11 in CP-120808,	Number
		approved at CP-58	
[5]	ETSI TS 100 934: "Digital cellular telecommunications	ETSI TS 100 934: "Digital	cellular
	system (Phase 2+) (GSM); Voice Broadcast Service (VBS);	telecommunications syste	m (Phase 2+); Voice
	Stage 2 (GSM 03.69 version 8.2.0 Release 1999)".	Broadcast Service (VBS);	
	For information, becoming in Rel-4 and later:	version 8.5.0 Release 199	99)".
	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 NP-000276,	(Originator-To-
	(3GPP TS 43.069)".	approved at SMG-32	Dispatcher Information
			into VBS)
		CR 0006 to TS 43.069	ASCI VBS call
		Rel-5 in NP-020383,	termination by
		approved at CN-17	dispatchers using DTMF
		CR 0007r4 to TS 43.069	MS late entry notification
		Rel-5 in NP-020676,	
		approved at CN-18	
		CR 0009r1 to TS 43.069	Correction to definition
		Rel-5 in NP-030407,	of Group-ID, Group call
		approved at NP-21	area ID and Broadcast
			Call Reference
		CR 0010r1 to TS 43.069	Correction to MS Late
		Rel-5 in NP-030409,	Entry description
		approved at CN-21	
		CR 0012 to TS 43.069	Correction on
		Rel-4 in NP-040373,	notification procedures
		approved at CN-25	for Originator of VBS call
		CR 0013r1 to TS 43.069	Correction on
		Rel-5 in NP-040373,	notification procedures
		approved at NP-25	for Originator of VBS call
		CR 0016r1 to TS 43.069	Broadcast call reference
		Rel-6 in NP-040515,	handling by the MSC
		approved at NP-26	during VBS call
		CD 0047 to TO 40 000	establishment
		CR 0017 to TS 43.069	Notification Response
		Rel-6 in NP-040515,	procedure
		approved at NP-26	Clarification
		CR 0018 to TS 43.069	Clarification on
		Rel-6 in NP-040515,	Immediate Setup
		approved at NP-26	procedure
		CR 0023 to TS 43.069	Inter-PLMN Broadcast
		Rel-6 in NP-050076,	Call notification for
		approved at CN-27	dispatchers
		CR 0026 to TS 43.069	Correction on the use of
		Rel-6 in CP-050057,	calling subscriber and
		approved at CP-28	destination subscriber
		CR 0029r1 to TS 43.069	Correction/ clarification
		Rel-7 in CP-060162,	of voice broadcast call
		approved at CP-31	release procedures
		CR 0077r2 to TS 43.069	Modification of
		Rel-7 in CP-060126,	conditions for VBS call
		approved at CP-31	establishment

le	dentification of the specifications as per clause 2.1 of ETSI EN 301 515 [1]	Applicable CRs and/or latest release 99 version	
Index	Specification	Applicable CR	Purpose
		CR 0079 to TS 43.069	Add signalling flow for a
		Rel-7 in CP-060276,	dispatcher originated
		approved at CP-32	VBS
		CR 0081r1 to TS 43.069	Including IMSI in
		Rel-7 in CP-060276,	Send_Group_Call_End_
		approved at CP-32	Signal message for VBS
		CR 0082 to TS 43.069	Correction to process
		Rel-7 in CP-060276,	VBS_Handling_Relay_M
		approved at CP-32	SC
		CR 0086r1 to TS 43.069	Failure cases during
		Rel-7 in CP-060506,	VBS call establishment
		approved at CP-33	
		CR 0088 to TS 43.069	Correction of PCH
		Rel-6 in CP-060457,	re-organization
		approved at CP-33	notification
		CR 0094 to TS 43.069	Condition for the
		Rel-6 in CP-060665,	inclusion of parameters
		approved at CP-34	in the GCR interrogation
		OD 0005 to TO 40 000	message
		CR 0095 to TS 43.069	Addition of Teleservice Code to
		Rel-6 in CP-060665,	SendGroupCallInfo
		approved at CP-34	Extension of Group ID
		CR 0097 to TS 43.069 Rel-6 in CP-070155,	Extension of Group ID
		approved at CP-35	
		CR 0098 to TS 43.069	Indication of the
		Rel-6 in CP-070155,	originating relay MSC
		approved at CP-35	address to anchor MSC
		CR 0100 to TS 43.069	Alignment of SDLs with
		Rel-7 in CP-070155,	condition for successful
		approved at CP-35	call setup
		CR 0101r2 to TS 43.069	Alignment between VBS
		Rel-7 in CP-070387,	and VGCS call
		approved at CP-36	establishment
		CR 0104 to TS 43.069	Definition of BSSAP
		Rel-6 in CP-070131,	procedure for release of
		approved at CP-35	VBS call controlling
			connections
		CR 0105 to TS 43.069	Retry of the VBS
		Rel-6 in CP-070387,	Assignment procedure
		approved at CP-36	
		CR 0106 to TS 43.069	Various corrections to
		Rel-8 in CP-070604,	the VBS specification
		approved at CP-37	Lie Belone et anno es de con
		CR 0108 to TS 43.069	Uplink reply procedure
		Rel-9 in CP-100135, approved at CP-47	
		CR 0109 to TS 43.069	Initial Talker Information
		Rel-9 in CP-110882,	handling (solving race
		approved at CP-54	conditions)
		CR 0110 to TS 43.069	GCR Transient Data
		Rel-9 in CP-110882,	CON TRANSION DATA
		approved at CP-54	
		CR 0120r1 to TS 43.069	Additional Calling Party
		Rel-11 in CP-120808,	Number
		approved at CP-58	
		CR 0121r1 to TS 43.069	Uplink reply procedure
		Rel-11 in CP-120808,	1 1 7 5 1 7 5 1 1 1
		approved at CP-58	

I	dentification of the specifications as per clause 2.1 of ETSI EN 301 515 [1]	Applicable CRs and/or latest release 99 version	
Index	Specification	Applicable CR	Purpose
[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 Rel-4 in P-00-255, approved at SMG-32	Introduction of OTDI (Originator-To- Dispatcher Information into VGCS)
	ETSI TS 144 068: "Digital cellular telecommunications system (Phase 2+); Group Call Control (GCC) protocol	CR 0001 to TS 44.068 Rel-4 in NP-000449, approved at CN-09	The repetition of the priority in the Call Reference IE in the SETUP message
		CR 0002r1 to TS 44.068 Rel-4 in NP-010269, approved at CN-12	Clarification of the coding of OTDI information in IA5 format
		CR 0003r1 to TS 44.068 Rel-4 in NP-020224, approved at NP-16	Various clean-up of wrong references, e.g. towards TS 44.018
		CR 0004 to TS 44.068 Rel-6 in NP-030486, approved at NP-22	Clarification of the muting and unmuting of the downlink
		CR 0012 to TS 44.068 Rel-7 in CP-060506, approved at CP-33	Increase VGCS setup timeout (MS timer TMM-est)
[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)". For information, becoming in Rel-4 and later: ETSI TS 144 069: "Digital cellular telecommunications system (Phase 2+); Broadcast Call Control (BCC) protocol (3GPP TS 44.069)".	CR A022 to TS 04.69 Rel-4 in P-00-255, approved at SMG-32	Introduction of OTDI (Originator-To- Dispatcher Information into VBS)
		CR 0001 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 0002 to TS 44.069 Rel-4 in NP-010269, approved at CN-12	Clarification of the coding of OTDI information in IA5 format
		CR 0003 to TS 44.069 Rel-4 in NP-000667, approved at NP-10	Call Waiting is not applicable to an originator in dedicated mode
		CR 0004 to TS 44.069 Rel-4 in NP-000667, approved at NP-10	Wrong Field Name for OTDI
		CR 0005 to TS 44.069 Rel-7 in CP-060506, approved at CP-33	Increase VBS setup timeout (MS timer TMM-est)
		CR 0006 to TS 44.069 Rel-5 in NP-020383, approved at NP-17	ASCI VBS call termination by dispatchers using DTMF
[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)". For information, becoming in Rel-4 and later: ETSI TS 151 011: "Digital cellular telecommunications system (Phase 2+); Specification of the Subscriber Identity Module - Mobile Equipment (SIM-ME) interface (3GPP TS 51.011)".	ETSI TS 100 977: "Digita telecommunications syste Specification of the Subso Mobile Equipment (SIM - (3GPP TS 11.11 version)	em (Phase 2+); criber Identity Module - ME) interface

le	dentification of the specifications as per clause 2.1 of ETSI 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 Telecommunication General on Supplemental (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); ry 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)".	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 3.4.0 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)".	ETSI TS 122 087 "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); User-to-User Signalling (UUS); Service description - Stage 1 (3G TS 22.087 version 3.1.0 Release 1999)".	
[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 (imp); Stage 2 (3GPP TS 03.67 version 7.1.0 Release 1998)".	ETSI TS 123 067: "Digital telecommunications syste Universal Mobile Telecom (UMTS); Enhanced Multi-Pre-emption Service (EMI (3GPP TS 23.067 version CR017 to TS 23.067 Rel-7 in SP-050631, approved at CT-30	em (Phase 2+) (GSM); emunications System Level Precedence and LPP); Stage 2
[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 telecommunications syste Universal Mobile Telecom (UMTS); User-to-user sign Supplementary Service - (3GPP TS 23.087 version)	em (Phase 2+) (GSM); nmunications System nalling (UUS) Stage 2
[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 CR004 to TS 23.094 Rel-7 in CP-060694, approved at CP-34	Notify of forced erasure to previously registered subscriber of his deregistration Reservation of outcome codes for GSM-Railway
[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 Telecommunication Mobile radio interface Lay network protocols; Stage (3GPP TS 24.008 version CR 0262r1 to 24.008 Rel-4 in NP-000667, approved at NP-10 CR 0418r2 to 24.008 Rel-4 in NP-010275, approved at NP-12	em (Phase 2+); Universal ns System (UMTS); rer 3 specification; Core 3

Identification of the specifications as per clause 2.1 Applicable CRs and/or latest release of ETSI EN 301 515 [1]		Applicable CRs and/or	atest release 99 version
Index	Specification	Applicable CR	Purpose
		CR 2469r1 to 24.008	Introduction of ER-GSM
		Rel-12 in CP-130762,	band
		approved at CP-62	
[17]	ETSI TS 100 950: "Digital cellular telecommunications	ETSI TS 124 080: "Digital	
	system (Phase 2+) (GSM); Mobile radio interface layer 3	telecommunications syste	
	supplementary services specification; Formats and coding	Mobile Telecommunication	
	(GSM 04.80 version 7.0.1 Release 1998)".	Mobile radio layer 3; supp	
		specification; Formats and	
		(3GPP TS 24.080 V3.7.1	
[18]	ETSI EN 301 711: "Digital cellular telecommunications	ETSI TS 124 087: "Digital	
	system (Phase 2+) (GSM); User-to-User Signalling (UUS);	telecommunications syste	
	Stage 3 (GSM 04.87 version 7.0.2 Release 1998)".	Universal Mobile Telecom	
		(UMTS); User-to-User Sig	
		Supplementary Service -	
[10]	ETOL TO 400 040 HD: 't H 1 1 1	(3G TS 24.087 version 3.	
[19]	ETSI TS 100 916: "Digital cellular telecommunications	ETSI TS 127 007: "Digital	
	system (Phase 2+); AT command set for GSM Mobile	telecommunications syste	
	Equipment (ME)	Universal Mobile Telecom	
	(3GPP TS 07.07 version 6.5.0 Release 1997)".	(UMTS); LTE; AT comma	na set for User
		Equipment (UE)	2 Pologo 1000\"
		(3GPP TS 27.007 V3.14.0	,
		CR 0043 to TS 27.007	Introduction of a new AT
		Rel-4 in TP-000144,	command+CUUS1 to
		approved at T-09	manage User-to-User
		OD 004445 TO 07 007	Information element
		CR 0044 to TS 27.007	Indication of priority
		Rel-4 in TP-000144,	and/or sub-address in
		approved at T-09	the unsolicited result
		CR 0045 to TS 27.007	code CCWA eMLPP SIM Commands
		Rel-4 in TP-000144,	eMLPP SIM Commands
		approved at T-09	
		CR 0046 to TS 27.007	VBS, VGCS SIM
		Rel-4 in TP-000144,	Commands
		approved at T-09	Commands
		CR 0047 to TS 27.007	Extension of dial
		Rel-4 in TP-000144,	command for VBS and
		approved at T-09	VGCS
[20]	ETSI TS 129 002: "Digital cellular telecommunications	ETSI TS 129 002: "Digital	
[20]	system (Phase 2+) (GSM); Universal Mobile	telecommunications system (Phase 2+); Universal	
	Telecommunications System (UMTS); Mobile Application	Mobile Telecommunication	
	Part (MAP) specification	Mobile Application Part (N	
	(3G TS 29.002 version 3.5.2 Release 1999)".	(3GPP TS 29.002 version	
	(CR 0541r2 to 29.002	Handover of Group Calls
		Rel-6 in NP-030100,	where MSC-B has
		approved at NP-19	bearer established
		CR 0664r1 to 29.002	Correction of encoding
		Rel-6 in NP-030379,	description of Group-Id
		approved at NP-21	
		CR 0801 to 29.002	Improvements to VGCS
		Rel-7 in CP-060079,	Call Establishment
		approved at CP-31	
		CR 0814 to 29.002	SSN for FFN
		Rel-7 in CP-060316,	
		approved at CP-32	
		CR 0828r1 to 29.002	Extension of Group ID
		Rel-7 in CP-060577,	
		approved at CP-34	
		CR 0829 to 29.002	Addition of Teleservice
		Rel-7 in CP-060577,	Code to
		approved at CP-34	SendGroupCallInfo
		CR 0876 to 29.002	Clarification on coding of
		Rel-8 in CP-070753,	Notification Data
		approved at CP-38	

lo	dentification of the specifications as per clause 2.1 of ETSI EN 301 515 [1]	Applicable CRs and/or	atest release 99 version
Index	Specification	Applicable CR	Purpose
	•	CR 0891r1 to 29.002	eMLPP Priority in MAP
		Rel-8 in CP-080467,	SRI, PRN and PSI
		approved at CP-41	request
		CR 0954r1 to 29.002	Uplink reply procedure
		Rel-9 in CP-100038,	177
		approved at CP-47	
		CR 1070 to 29.002	Introduction of group IDs
		Rel-11 in CP-120037,	with prefix
		approved at CP-55	·
[21]	ETSI EN 300 925: "Digital cellular telecommunications	ETSI TS 100 925: "Digital	cellular
' '	system (Phase 2+) (GSM); Voice Group Call Service	telecommunications syste	
	(VGCS) - Stage 1 (GSM 02.68 version 7.0.2	Group Call Service (VGC	
	Release 1998)".	(3GPP TS 02.68 version	
	For information, becoming in Rel-4 and later:	CR A013 to TS 02.68	Introduction of
	ETSI TS 142 068: "Digital cellular telecommunications	Rel-4 in P-00-304,	Originator-to-dispatcher
	system (Phase 2+); Voice Group Call Service (VGCS);	approved at SMG-32	information into VGCS
	Stage 1 (3GPP TS 42.068)".	CR 0019 to 42.068	Modification to setup to
		Rel-7 in SP-060026,	remove the need for full
		approved at SP-31	conditions
		CR 0022r2 to 42.068	Increasing maximum
		Rel-7 in SP-060306,	number of dispatchers to
		approved at SP-32	20 as an optional
			requirement
		CR 0033 to 42.068	Correction on the use of
		Rel-8 in SP-060774,	'listener' and 'talker'
		approved at SP-34	
		CR 0037r1 to 42.068	Clarification of
		Rel-8 in SP-070645,	interactions with
		approved at SP-37	supplementary and
			other GSM services
[22]	ETSI EN 300 926: "Digital cellular telecommunications	ETSI TS 100 926: "Digital	
	system (Phase 2+) (GSM); Voice Broadcast Service (VBS) -	telecommunications syste	
	Stage 1 (GSM 02.69 version 8.0.1 Release 1999)".		Stage 1 (3GPP TS 02.69
	For information, becoming in Rel-4 and later:	version 8.2.0 Release 199	
	ETSI TS 142 069: "Digital cellular telecommunications	CR A014 to TS 02.69	Introduction of
	system (Phase 2+); Voice Broadcast Service (VBS); Stage 1	Rel-4 in P-00-304,	Originator-to-dispatcher
	(3GPP TS 42.069)".	approved at SMG-32	information into VBS
		CR 0006 to 42.069	Modification to setup to
		Rel-7 in SP-060028,	remove the need for full
		approved at SP-31	conditions
		CR 0007 to 42.069	Increasing maximum
		Rel-7 in SP-060027,	number of dispatchers to
		approved at SP-31	20 as an optional
		CD 0000 to 40 000	requirement
		CR 0008 to 42.069	Correction on the use of
		Rel-8 in SP-060775,	listening service subscriber
		approved at SP-34 CR 0010r1 to 42.069	Clarification of
		Rel-8 in SP-070644,	interactions with
		approved at SP-37	supplementary and
		approved at or -or	other GSM services
[23]	ETSI EN 300 904: "Digital cellular telecommunications	ETSI TS 122 002: "Digital	
ا اداما	system (Phase 2+) (GSM); Bearer Services (BS) supported	telecommunications syste	
	by a GSM Public Land Mobile Network (PLMN) (GSM 02.02	Universal Mobile Telecom	
	version 6.1.1 Release 1997)".		ervices (BS) supported by
	10017	a Public Land Mobile Net	
		(3GPP TS 22.002 version	
[24]	ETSI TS 100 905: "Digital cellular telecommunications	ETSI TS 122 003: "Digital	
ر- ۱	system (Phase 2+) (GSM); Teleservices supported by a	telecommunications syste	
	GSM Public Land Mobile Network (PLMN)	Universal Mobile Telecom	
	(GSM 02.03 version 7.0.0 Release 1998)".		ces supported by a Public
	(C.C. 52.00 Foldon Floro Rollado Floro) .	Land Mobile Network (PL	
		(3GPP TS 22.003 v.3.3.0	Release 1999)".

Identification of the specifications as per clause 2.1 of ETSI EN 301 515 [1]		Applicable CRs and/or latest release 99 version	
Index	Specification	Applicable CR	Purpose
[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 122 101: "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 TS 122 067: "Digital telecommunications syste Universal Mobile Telecom (UMTS); enhanced Multi I Pre emption service (eML (3G TS 22.067 version 3.0 CR 0006 to 22.067 Rel-7 in SP-060029, approved at SP-31	em (Phase 2+) (GSM); nmunications System Level Precedence and PP) Stage 1
[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)".	ETSI TS 122 090: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Unstructured Supplementary Service Data (USSD) - Stage 1 (3G TS 22.090 version 3.1.0 Release 1999)".	
[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 syste 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)".		
[31]	ETSI TS 100549: "Digital cellular telecommunications system (Phase 2+) (GSM); Unstructured Supplementary Service Data (USSD) - Stage 2 (GSM 03.90 version 7.0.0 Release 1998)".	(USSD) - Stage 2 (3GPP TS 23.090 V3.2.0	em (Phase 2+) (GSM); emunications System pplementary Service Data Release 1999)".
[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 syste Universal Mobile Telecom (UMTS); enhanced Multi-Pre-emption service (eMLTS 24.067 V3.2.0 Release	m (Phase 2+) (GSM); munications System Level Precedence and PP) - Stage 3 (3GPP

Į.	dentification of the specifications as per clause 2.1 of ETSI EN 301 515 [1]	Applicable CRs and/or latest release 99 version	
Index	Specification	Applicable CR	Purpose
[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)".	(USSD) - Stage 3 (3G TS Release 1999)".	m (Phase 2+) (GSM); munications System pplementary Service Data 24.090 version 3.0.0
[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 telecommunications syste Universal Mobile Telecom (UMTS); Call Forwarding services - Stage 3 (3G TS Release 1999)".	m (Phase 2+) (GSM); munications System (CF) supplementary
[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)". For information, becoming in Rel-4 and later: ETSI TS 145 005: "Digital cellular telecommunications system (Phase 2+); Radio transmission and reception (3GPP TS 45.005)".	ETSI TS 100 910: "Digital telecommunications syste Radio transmission and reversion 8.20.0 Release 19 CR 0548 to 45.005 Rel-11 in GP-130876, approved at GP-59	m (Phase 2+) (GSM); eception (3GPP TS 05.05
[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)". For information, becoming in Rel-4 and later: ETSI TS 151 014: " Digital cellular telecommunications system (Phase 2+); Specification of the SIM Application Toolkit for the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface (3GPP TS 51.014)".	ETSI TS 101 267: "Digital telecommunications syste Specification of the SIM A Subscriber Identity Modul (SIM - ME) interface (3GF Release 1999)".	m (Phase 2+); pplication Toolkit for the e - Mobile Equipment

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

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

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

Identification of the specifications impacted by RT-specific		Additional CRs or new version of release 99	
	CRs not (yet) listed in clause 2.1 of EN 301 515 [1]	specification required	
Index	Specification	CR identification in	Purpose
		addition to the TS	
[51]	ETSI TS 100 930: "Digital cellular telecommunications	CR 0024r4 to TS 43.022	Enhanced Cell
	system (Phase 2+); Functions related to Mobile Station (MS)	Rel-8 in GP-071519,	Reselection for VGCS
	in idle mode and group receive mode; (3GPP TS 03.22	approved at GP-35	
	v.8.7.0 Release 1999)".	CR 0001 to TS 43.022	Mandatory usage of
	For information, becoming in Rel-4 and later:	Rel-4 in GP-000875,	SYSTEM
	ETSI TS 143 022: "Digital cellular telecommunications	approved at GP-02	INFORMATION TYPE
	system (Phase 2+); Functions related to Mobile Station (MS)		10 messages for VGCS
	in idle mode and group receive mode (3GPP TS 43.022)".		and VBS
[52]	ETSI TS 101 503: "Digital cellular telecommunications	CR 0685 to TS 44.018	Correction to format of
	system (Phase 2+) Mobile radio interface layer 3	Rel-8 in GP-081194,	SI10ter message
	specification; Radio Resource Control (RRC) Protocol	approved at GP-39	
	(3GPP TS 04.18 v.8.27.0 Release 1999)".	CR 0031r1 to TS 44.018	Mandatory use of
	For information, becoming in Rel-4 and later:	Rel-4 in GP-000828,	SYSTEM
	ETSI TS 144 018: "Digital cellular telecommunications	approved at GP-02	INFORMATION TYPE
	system (Phase 2+); Mobile radio interface layer 3		10
	specification; Radio Resource Control (RRC) protocol	CR 0032 to TS 44.018	Support of reduced NCH
	(3GPP TS 44.018)".	Rel-4 in GP-000500,	monitoring
		approved at GP-02	

	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 version of release 99 specification required		
Index	Specification	CR identification in addition to the TS	Purpose	
		CR 0033 to TS 44.018	Sending of NLN and	
		Rel-4 in GP-000501,	NLN status	
		approved at GP-02		
		CR 0034 to TS 44.018	Indication of no VGCS	
		Rel-4 in GP-000502,	or VBS calls active in a	
		approved at GP-02	cell	
		CR 0035 to TS 44.018	Action in group receive	
		Rel-4 in GP-000503,	mode on entering new	
		approved at GP-02	cell Provision of NLN on	
		CR 0036 to TS 44.018	SACCH	
		Rel-4 in GP-000504, approved at GP-02	SACCH	
		CR 0269r1 to TS 44.018	Editorial corrections for	
		Rel-6 in GP-031996,	ASCI services	
		approved at GP-16	7.001 Scrvices	
		CR 0301r2 to TS 44.018	Lack of FH parameters	
		Rel-4 in GP-040131,	during VGCS handover	
		approved at GP-18		
		CR 0316r3 to TS 44.018	Release dedicated	
		Rel-6 in GP-041287,	channel of talker in	
		approved at GP-20	Voice Group Call	
		CR 0333 to TS 44.018	Correction of the CSN.1	
		Rel-4 in GP-041290,	coding of the SI10 Rest	
		approved at GP-20	Octets to be used for ASCI	
		CR 0357 to TS 44.018	VGCS Target Mode	
		Rel-4 in GP-041839,	Indication IEI	
		approved at GP-21		
		CR 0360 to TS 44.018	Correction to Group	
		Rel-4 in GP-041843,	Channel Description IE	
		approved at GP-21 CR 0401 to TS 44.018	Correction to channel	
		Rel-6 in GP-050106,	mode modify	
		approved at GP-23	mode modify	
		CR 0409r1 to TS 44.018	Transmission of	
		Rel-6 in GP-050566,	Notifications for VGCS	
		approved at GP-23	on PCH	
		CR 0438r1 to TS 44.018	Removal of length	
		Rel-6 in GP-050860,	restrictions for some	
		approved at GP-24	VGCS messages	
		CR 0442r3 to TS 44.018	Inconsistency of Group	
		Rel-6 in GP-051153,	Channel Description	
		approved at GP-24		
		CR 0453 to TS 44.018	Correction to	
		Rel-6 in GP-051408,	Notification/FACCH	
		approved at GP-25	I Inlink rophy proceeds:	
		CR 0683 to TS 44.018 Rel-8 in GP-081048,	Uplink reply procedure	
		approved at GP-39		
		CR 0986 to TS 44.018	Uplink reply procedure	
		Rel-11 in GP-121315,	philik reply procedure	
		approved at GP-56		
[53]	ETSI TS 122 081: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile			
	Telecommunications System (UMTS); Line identification			
	Supplementary Services; Stage 1 (3G TS 22.081 version			
	3.2.0 Release 1999)".			
[54]	ETSI TS 122 082: "Digital cellular telecommunications			
	system (Phase 2+); Universal Mobile Telecommunications			
		1	1	
	System (UMTS); Call Forwarding (CF) Supplementary Services; Stage 1 (3GPP TS 22.082 version 3.0.2 Release			

Identification of the specifications impacted by RT-specific CRs not (yet) listed in clause 2.1 of EN 301 515 [1]		Additional CRs or new version of release 99 specification required	
Index	Specification	CR identification in addition to the TS	Purpose
[55]	ETSI TS 122 083: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Call Waiting (CW) and Call Holding (HOLD) Supplementary Services - Stage 1	addition to the re	
[56]	(3G TS 22.083 version 3.0.1 Release 1999)". ETSI TS 122 084: "Digital cellular telecommunications		
	system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); MultiParty (MPTY) Supplementary Services - Stage 1 (3G TS 22.084 version 3.0.1 Release 1999)".		
[57]	ETSI TS 122 085: "Digital cellular telecommunications system (Phase 2+) (GSM) ;Universal Mobile Telecommunications System (UMTS); Closed User Group (CUG) Supplementary Services - Stage 1 (3G TS 22.085 version 3.1.0 Release 1999)".		
[58]			
[59]	ETSI TS 122 088: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Call Barring (CB) Supplementary Services - Stage 1 (3GPP TS 22.088 version 3.0.2 Release 1999)".		
[60]	ETSI TS 122 091: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); Explicit Call Transfer (ECT) (3GPP TS 22.091 version 3.1.0 Release 1999)".		
[61]	ETSI TS 122 093: "Digital cellular telecommunications system (Phase 2+) (GSM);Universal Mobile Telecommunications System (UMTS); Completion of Calls to Busy Subscriber (CCBS);Service description, Stage 1 (3G TS 22.093 version 3.0.1 Release 1999)".		
[62]	ETSI TS 123 003: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Numbering, addressing and identification (3GPP TS 23.003 version 3.15.0 Release 1999)".		
[63]	ETSI TS 123 014: "Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Support of Dual Tone Multi Frequency (DTMF) signalling (3GPP TS 23.014 version 3.2.0 Release 1999)".		
[64]	ETSI TS 100 909: "Digital cellular telecommunications system (Phase 2+); Channel coding (3GPP TS 05.03 version 8.9.0 Release 1999)" For information, becoming in Rel-4 and later: ETSI TS 145 003: "Digital cellular telecommunications system (Phase 2+); Channel coding (3GPP TS 45.003)".	CR 0131 to 45.003 Rel-11 in GP-121314, approved at GP-56	Uplink reply procedure
[65]	ETSI TS 100 573: "Digital cellular telecommunications system (Phase 2+); Physical Layer on the Radio Path (General Description) (3GPP TS 05.01 version 8.9.0 Release 1999)" For information, becoming in Rel-4 and later: ETSI TS 145 001: "Digital cellular telecommunications system (Phase 2+); Physical layer on the radio path; General description (3GPP TS 45.001)".	CR 0076 to 45.001 Rel-11 in GP-130857, approved at GP-59	Introduction of ER-GSM band
[66]	ETSI TS 100 921: "Digital cellular telecommunications system (Phase 2+); Radio subsystem link control (3GPP TS 05.08 version 8.23.0 Release 1999)" For information, becoming in Rel-4 and later: ETSI TS 145 008: "Digital cellular telecommunications system (Phase 2+); Radio subsystem link control (3GPP TS 45.008)".	CR 0618 to 45.008 Rel-11 in GP-130884, approved at GP-59	Introduction of ER-GSM band

Identification of the specifications impacted by RT-specific CRs not (yet) listed in clause 2.1 of EN 301 515 [1]		Additional CRs or new version of release 99 specification required	
Index	Specification	CR identification in addition to the TS	Purpose
[67]	ETSI TS 101 087: "Digital cellular telecommunications system (Phase 2+); Base Station System (BSS) equipment specification; Radio aspects (3GPP TS 11.21 version 8.11.0	CR 0271 to 51.021 Rel-11 in GP-140194r3, approved at GP-61	Introduction of ER-GSM band
	Release 1999)" For information, becoming in Rel-4 and later: ETSI TS 151 021: "Digital cellular telecommunications system (Phase 2+); Base Station System (BSS) equipment specification; Radio aspects (3GPP TS 51.021)".	CR 0272 to 51.021 Rel-12 in GP-140340, approved at GP-62	Introduction of ER-GSM band
[68]	ETSI TS 100 607-2: "Digital cellular telecommunications system (Phase 2+) (GSM); Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (GSM 11.10-2 version 4.16.0)" For information, becoming in Rel-4 and later: ETSI TS 151 010: "Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 2: Protocol Implementation Conformance Statement (PICS) proforma specification (3GPP TS 51.010-2)".	CR to TS 51.010-2 Rel-11 in GP-140025 approved at GP-61	ER-GSM updates Part 2

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)".

ETSI TR 145 050: "Digital cellular telecommunications system (Phase 2+); Background for Radio Frequency (RF) requirements (3GPP TR 45.050)".

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