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Reference RTS/RT-0031

Keywords

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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).

Modal verbs terminology

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

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1 Scope

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

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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".

2.2 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

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

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4.0 General desciptions of CRs

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

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_102281v020400p0 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: <u>ftp://ftp.3gpp.org/Information/Databases/Change_Request/.</u>

4.1 CRs applicable to the TSs already listed as normative references of ETSLEN 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]

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
	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)". <i>For information, becoming in Rel-4 and later:</i> 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 8 CR 0001 to 48.008 Rel-4 in GP-000034, approved at GP-01 CR 0114r6 to 48.008 Rel-6 in GP-041711, approved at GP-20 CR 0120 to 48.008 Rel-6 in GP-040952, approved at GP-19	cellular m (Phase 2+); Mobile- - Base Station System yer 3 specification

Identification of the specifications as per clause 2.1		Applicable CRs and/or latest release 99 version	
of ETSI EN 301 515 [1] Index Specification		Applicable CP	Burnese
muex	Specification	Applicable CR CR 0149 to 48.008	Purpose 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 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	Correction and addition
		Rel-7 in GP-070440,	to Paging Information IE
		approved at GP-33 CR 0228r1 to 48.008	Queuing procedure
		Rel-7 in GP-070443,	clarification
		approved at GP-33	claimcation
		CR 0229 to 48.008	Definition of BSSAP
		Rel-7 in GP-070337,	procedures for release/
		approved at GP-33	refusal of VGCS/ VBS
			call controlling/ resource
	4		controlling connections
		CR 0244r3 to 48.008	Circuit Identity Code
		Rel-7 in GP-080220,	(CIC) in VGCS/VBS
		approved at GP-37	Assignment Result /
	SI all		Request Correction to Uplink
	D left.	CR 0266 to 48.008 Rel-8 in GP-081196,	Request Confirmation
		approved at GP-39	Request Commation
[2]	ETSI TS 100 607-1: "Digital cellular telecommunications	ETSI TS 100 607-1: "Digit	al cellular
·		telecommunications system (Phase 2+); Mobile	
	conformance specification: Part 1: Conformance	Station (MS) conformance specification; Part 1:	
	specification (GSM 11.10-1 version 8.2.0 Release 1999)". For information, becoming in Rel-4 and later:	Conformance specification	
		(3GPP TS 11.10-1 version	
	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; Fe (3GPP TS 51.010-1)".	approved at GP-61 CR 4913 to TS 51.010-1	ER-GSM updates
	(SOLT TO STOLET).	Rel-11 in GP-140079	sec00-sec11
	eill ^y det	approved at GP-61	36000-36011
	the sail		ER-GSM updates
	No Ac	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	
		CR 4916 to TS 51.010-1	ER-GSM updates
		Rel-11 in GP-140082	sec15-sec20
		approved at GP-61 CR 4918 to TS 51.010-1	ER-GSM updates
		Rel-11 in GP-140083	sec26 part 2
		approved at GP-61	50020 puit 2
		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	
		CR 4921 to TS 51.010-1	ER-GSM updates
		Rel-11 in GP-140086	sec52
101		approved at GP-61	
[3]	ETSI TS 100 929: "Digital cellular telecommunications	ETSI TS 100 929: "Digital	
	system (Phase 2+) (GSM); Security related network	telecommunications syste	m (Phase 2+); Security-
	functions (COM 02 20 provides 0.0.0 Delagate 4000)		
	functions (GSM 03.20 version 8.0.0 Release 1999)".	related network functions (3GPP TS 03.20 version 8	8 6 0 Polococ 1000\"

	dentification of the specifications as per clause 2.1 of ETSI EN 301 515 [1]	per clause 2.1 Applicable CRs and/or latest release 99 version	
Index	Specification	Applicable CR	Purpose
[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)".	ETSI TS 100 933: "Digital telecommunications syste Group Call Service (VGC	em (Phase 2+); Voice S); Stage 2
	For information, becoming in Rel-4 and later:	(3GPP TS 03.68 version 8	
	ETSI TS 143 068: "Digital cellular telecommunications system (Phase 2+); Voice Group Call Service (VGCS); Stage 2 (3GPP TS 43.068)".	CR A023 to TS 03.68 Rel-4 in P-00-255, approved at SMG#32	Introduction of OTDI (Originator-To- Dispatcher Information into VGCS)
		CR 0007 to TS 43.068 Rel-5 in NP-020383, approved at CN#17	ASCI VGCS call termination by dispatchers using DTMF
		CR 0008r4 to TS 43.068 Rel-5 in NP-020675, approved at CN#18 CR 0009r1 to TS 43.068	MS late entry notification
		Rel-4 in NP-030408, approved at CN#21 CR 0013r1 to TS 43.068	Correction of uplink release management Correction to MS Late
		Rel-5 in NP-030409, approved at CN#21	Entry description
	ORENIE	Rel-6 in NP-030410, approved at CN#21	mute/unmute of talkers downlink and correction and update of incorrect
	ABD Sitehia	CR 0017 to 43.068	implementation of CR 03.68 A022 Correction on
	A Data standards	Rel-4 in NP-040373, approved at CN#25	notification for first talker of VGCS call Correction on notification for first
	HUBSHILLESS ACTION IN THE SEAL OF THE SEAL	61	talker of VGCS call Correction on notification for first talker of VGCS call
	silstandardaffet	CR 0029 to 43.068 Rel-4 in NP-050067, approved at CN#27	Correction of the conditions for establishment of a voice group call
	nth 88d	CR 0036 to 43.068 Rel-6 in NP-050076, approved at CN#27	Inter-PLMN Group Call notification for dispatchers
		CR 0046r1 to 43.068 Rel-6 in CP-050361, approved at CP-29	Clarification of the role of the anchor MSC
		CR 0068 to 43.068 Rel-7 in CP-050549, approved at CP-30	Editorial corrections (corrections of misspelling, grammatical errors, etc.)
		CR 0072r2 to 43.068 Rel-6 in CP-060113, approved at CP-31	Correction of muting/un- muting procedure
		CR 0076r1 to 43.068 Rel-7 in CP-060122, approved at CP-31	Modification of conditions for VGCS call establishment
		CR 0080r1 to 43.068 Rel-7 in CP-060122, approved at CP-31	Corrections and clarifications to the procedures for releasing the calling service subscribers dedicated connection to the anchor
		CR 0081r1 to 43.068	MSC Correction/ clarification
		Rel-7 in CP-060122, approved at CP-31 CR 0085 to 43.068	of voice group call termination procedures Add signalling flow for a

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
		Rel-7 in CP-060272,	dispatcher originated
		approved at CP-32	VGCS
		CR 0094 to 43.068	Correction of Figure 6
		Rel-7 in CP-060276,	
		approved at CP-32	
		CR 0097r2 to 43.068	Failure cases during
		Rel-7 in CP-060464,	VGCS call
		approved at CP-33	establishment
		CR 0128 to 43.068	Definition of BSSAP
		Rel-6 in CP-070131,	procedure for release of
		approved at CP-35	VGCS call controlling connections
		CR 0131r1 to 43.068	Silent (re-)joining
		Rel-7 in CP-070376,	dispatcher, immediately
		approved at CP-36	talking dispatcher
		CR 0133 to 43.068	Definition of BSSAP
		Rel-8 in CP-070371,	procedure for release of
		approved at CP-36	VGCS call controlling connections
	A	CR 0141 to 43.068	Correction to process
	l l l l l l l l l l l l l l l l l l l	Rel-8 in CP-070604,	VGCS_Handling_Relay_
		approved at CP-37	MSC
	all a second sec	CR 0145r1 to 43.068	Clean up of the
	Rr all	Rel-7 in CP-080123,	requirement of sending
	ilensistenainen automation	approved at CP-39	SMS to non established group calls
	A ASA N	CR 0147r1 to 43.068	Clarification of the
	A ATU ART	Rel-8 in CP-080129,	channel to be used for
	A die and al	approved at CP-39	uplink access
	Stratt ustrallar	CR 0150 to 43.068	Clarification of
	M Strath Car (12	Rel-8 in CP-080361,	conditions for start and
	ile itehandra 201	approved at CP-40	stop of voice inactivity timer
	15. Call	CR 0003 to 43.068	Identification of Group
	Lar Alt	Rel-4 in NP-000449,	ID - The longest GID
	alledra	approved at NP-09	has to be matched
	115 Reat	CR 0004 to 43.068	Call Waiting is not
	A State of the sta	Rel-4 in NP-000667,	applicable to an
	ileh Standardsiten and anti-anona anti-	approved at NP-10	originator/talker in dedicated mode
		CK 0005 10 43.000	Wrong Field Name for
		Rel-4 in NP-000667,	OTDI
		approved at NP-10	
		CR 0006r1 to 43.068	DTMF precision
		Rel-4 in NP-000667,	
		approved at NP-10	
		CR 0007 to 43.068	ASCI VGCS call
		Rel-7 in NP-020383,	termination by
		approved at NP-17	dispatchers using DTMF
		CR 0008r4 to 43.068	MS late entry notification
		Rel-7 in NP-020675,	
		approved at NP-18	Correction to definition
		CR 0011r1 to 43.068 Rel-4 in NP-030407,	of Group-ID, Group call
		approved at NP-21	area ID and Group Call
		approved at INF = 2 1	Reference
		CR 0013r1 to 43.068	Correction to MS Late
		Rel-7 in NP-030409,	Entry description
		approved at NP-21	
		CR 0014r2 to 43.068	Dispatcher signalled
		Rel-6 in NP-030410,	mute/unmute of talkers
		approved at NP-21	downlink and correction
			and update of incorrect
			implementation of CR

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[5] ETSI TS 100 934: "Digital cellular telecommunications ETSI TS 100 934: "Digital cellular	[5]	ETSI TS 100 934: "Digital cellular telecommunications		cellular
system (Phase 2+) (GSM); Voice Broadcast Service (VBS); telecommunications system (Phase 2+); Voice	r~1			
Stage 2 (GSM 03.69 version 8.2.0 Release 1999)". Broadcast Service (VBS); Stage 2 (3GPP TS 03				
For information, becoming in Rel-4 and later: version 8.5.0 Release 1999)".				
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-				
				Dispatcher Information
		· · · ·		into VBS)