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Digital cellular telecommunications system (Phase 2+) (GSM); Mobile radio interface layer 3 specification, Radio Resource Control Protocol (GSM 04.18 version 8.3.1 Release 1999)

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**Digital cellular telecommunications system (Phase 2+);
Mobile radio interface layer 3 specification,
Radio Resource Control Protocol
(GSM 04.18 version 8.3.1 Release 1999)**

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Contents

Intellectual Property Rights	12
Foreword.....	12
1 Scope	13
1.1 Scope of the Technical Specification	13
1.2 Application to the interface structures	13
1.3 Structure of layer 3 procedures.....	13
1.4 Test procedures	13
1.5 Use of logical channels.....	14
1.6 Overview of control procedures	14
1.6.1 List of procedures	14
1.7 Applicability of implementations	15
1.7.1 Voice Group Call Service (VGCS) and Voice Broadcast Service (VBS).....	15
1.7.2 General Packet Radio Service (GPRS).....	16
2 References	16
2.1 Definitions and abbreviations.....	20
2.1.1 Random values.....	20
2.1.2 Vocabulary.....	20
3 Radio Resource management procedures.....	21
3.1 Overview/General	21
3.1.1 General.....	21
3.1.2 Services provided to upper layers.....	22
3.1.2.1 Idle mode	22
3.1.2.2 Dedicated mode.....	22
3.1.2.3 Group receive mode	22
3.1.2.4 Group transmit mode.....	23
3.1.2.5 Packet idle mode.....	23
3.1.2.6 Packet transfer mode.....	23
3.1.3 Services required from data link and physical layers.....	23
3.1.4 Change of dedicated channels.....	24
3.1.4.1 Change of dedicated channels using SAPI = 0.....	24
3.1.4.2 Change of dedicated channels using other SAPIs than 0	24
3.1.4.3 Sequenced message transfer operation.....	24
3.1.4.3.1 Variables and sequence numbers.....	25
3.1.4.3.2 Procedures for the initiation, transfer execution and termination of the sequenced message transfer operation.....	25
3.1.5 Procedure for Service Request and Contention Resolution	25
3.1.6 Preemption.....	26
3.2 Idle mode procedures and general procedures in packet idle and packet transfer modes.....	27
3.2.1 Mobile Station side	27
3.2.2 Network side.....	28
3.2.2.1 System information broadcasting	28
3.2.2.2 Paging	29
3.3 RR connection establishment	29
3.3.1 RR connection establishment initiated by the mobile station	29
3.3.1.1 Entering the dedicated mode : immediate assignment procedure	29
3.3.1.1.1 Permission to access the network	29
3.3.1.1.2 Initiation of the immediate assignment procedure.....	30
3.3.1.1.3 Answer from the network.....	31
3.3.1.1.4 Assignment completion	32
3.3.1.1.5 Abnormal cases	33
3.3.1.2 Entering the group transmit mode: uplink access procedure.....	34
3.3.1.2.1 Mobile station side	34
3.3.1.2.2 Network side.....	35
3.3.1.2.3 Abnormal cases	35
3.3.1.3 Dedicated mode and GPRS	35

3.3.2	Paging procedure for RR connection establishment	36
3.3.2.1	Paging initiation by the network	36
3.3.2.1.1	Paging initiation using paging subchannel on CCCC	36
3.3.2.1.2	Paging initiation using paging subchannel on PCCC	37
3.3.2.1.3	Paging initiation using PACCH	37
3.3.2.2	Paging response	38
3.3.2.3	Abnormal cases	38
3.3.3	Notification procedure	38
3.3.3.1	Notification of a call	38
3.3.3.2	Joining a VGCS or VBS call	39
3.3.3.3	Reduced NCH monitoring mechanism	39
3.4	Procedures in dedicated mode and in group transmit mode	40
3.4.1	SACCH procedures	40
3.4.1.1	General	40
3.4.1.2	Measurement report	41
3.4.1.3	Extended measurement report \$(MAFA)\$	41
3.4.2	Transfer of messages and link layer service provision	42
3.4.3	Channel assignment procedure	42
3.4.3.1	Channel assignment initiation	42
3.4.3.2	Assignment completion	43
3.4.3.3	Abnormal cases	44
3.4.4	Handover procedure	45
3.4.4.1	Handover initiation	45
3.4.4.2	Physical channel establishment	46
3.4.4.2.1	Finely synchronized cell case	47
3.4.4.2.2	Non synchronized cell case	47
3.4.4.2.3	Pseudo-synchronized cell case	47
3.4.4.2.4	Pre-synchronized cell case	48
3.4.4.3	Handover completion	48
3.4.4.4	Abnormal cases	49
3.4.5	Frequency redefinition procedure	50
3.4.5.1	Abnormal cases	50
3.4.6	Channel mode modify procedure	50
3.4.6.1	Normal channel mode modify procedure	50
3.4.6.1.1	Initiation of the channel mode modify procedure	50
3.4.6.1.2	Completion of channel mode modify procedure	51
3.4.6.1.3	Abnormal cases	51
3.4.6.2	Channel mode modify procedure for a voice group call talker	51
3.4.6.2.1	Initiation of the channel mode modify procedure	51
3.4.6.2.2	Completion of mode change procedure	51
3.4.6.2.3	Abnormal cases	51
3.4.7	Ciphering mode setting procedure	52
3.4.7.1	Ciphering mode setting initiation	52
3.4.7.2	Ciphering mode setting completion	52
3.4.8	Additional channel assignment procedure	53
3.4.8.1	Additional assignment procedure initiation	53
3.4.8.2	Additional assignment procedure completion	53
3.4.8.3	Abnormal cases	53
3.4.9	Partial channel release procedure	53
3.4.9.1	Partial release procedure initiation	54
3.4.9.2	Abnormal cases	54
3.4.10	Classmark change procedure	54
3.4.11	Classmark interrogation procedure	54
3.4.11.1	Classmark interrogation initiation	54
3.4.11.2	Classmark interrogation completion	54
3.4.12	Indication of notifications and paging information	55
3.4.13	RR connection release procedure	55
3.4.13.1	Normal release procedure	55
3.4.13.1.1	Channel release procedure initiation in dedicated mode and in group transmit mode	55
3.4.13.1.2	Abnormal cases	56
3.4.13.2	Radio link failure in dedicated mode	56
3.4.13.2.1	Mobile side	57

3.4.13.2.2	Network side.....	57
3.4.13.3	RR connection abortion in dedicated mode	57
3.4.13.4	Uplink release procedure in group transmit mode	57
3.4.13.5	Radio link failure in group transmit mode	57
3.4.13.5.1	Mobile side.....	58
3.4.13.5.2	Network side.....	58
3.4.14	Receiving a RR STATUS message by a RR entity.....	58
3.4.15	Group receive mode procedures	58
3.4.15.1	Mobile station side.....	58
3.4.15.1.1	Reception of the VGCS or VBS channel.....	58
3.4.15.1.2	Monitoring of downlink messages and related procedures.....	59
3.4.15.1.2.1	Spare	59
3.4.15.1.2.2	Spare	59
3.4.15.1.2.3	Channel mode modify procedure.....	59
3.4.15.1.2.4	Notification and paging information.....	59
3.4.15.1.2.4.1	Use of Reduced NCH monitoring	59
3.4.15.1.2.5	Uplink status messages	60
3.4.15.1.2.6	Channel release message.....	60
3.4.15.1.2.7	Information on paging channel restructuring.....	60
3.4.15.1.3	Uplink reply procedure.....	60
3.4.15.1.4	Leaving the group receive mode	60
3.4.15.2	Network side	61
3.4.15.2.1	Provision of messages on the VGCS or VBS channel downlink.....	61
3.4.15.2.2	Release of the VGCS or VBS Channels	62
3.4.15.3	Failure cases	62
3.4.16	Configuration change procedure.....	62
3.4.16.1	Configuration change initiation.....	62
3.4.16.2	Configuration change completion	62
3.4.16.3	Abnormal cases	62
3.4.17	Mapping of user data substreams onto timeslots in a multislot configuration.....	63
3.4.18	Handling of classmark information at band change.....	63
3.4.19	Assignment to a Packet Data channel.....	63
3.4.19.1	Assignment to PDCH initiation.....	64
3.4.19.2	Completion of the Assignment to PDCH procedure.....	65
3.4.19.3	Abnormal cases	65
3.4.20	RR-Network Commanded Cell Change Order	65
3.4.20.1	RR-network commanded cell change order initiation.....	66
3.4.20.2	Network controlled cell reselection completion.....	66
3.4.20.3	Abnormal cases	66
3.4.21	Application Procedures.....	67
3.4.21.1	General.....	67
3.4.21.2	Location Services (LCS)	67
3.4.21.3	Application Information Transfer	67
3.4.21.3.1	Normal Procedure without Segmentation.....	67
3.4.21.3.2	Normal Procedure with Segmentation.....	68
3.4.21.3.3	Abnormal Cases.....	68
3.5	RR procedures on CCCH related to temporary block flow establishment	69
3.5.1	Packet paging procedure using CCCH.....	69
3.5.1.1	Packet paging initiation by the network.....	69
3.5.1.2	On receipt of a packet paging request	69
3.5.2	Packet access procedure using CCCH	70
3.5.2.1	Entering the packet transfer mode: packet access procedure	70
3.5.2.1.1	Permission to access the network	70
3.5.2.1.2	Initiation of the packet access procedure: channel request.....	70
3.5.2.1.3	Packet immediate assignment.....	71
3.5.2.1.4	Packet access completion	73
3.5.2.1.5	Abnormal cases	74
3.5.2.2	Sending an RLC/MAC control message: single block packet access procedure	74
3.5.3	Packet downlink assignment procedure using CCCH	74
3.5.3.1	Entering the packet transfer mode: packet downlink assignment procedure.....	74
3.5.3.1.1	Void.....	75
3.5.3.1.2	Initiation of the packet downlink assignment procedure	75

3.5.3.1.3	Packet downlink assignment completion.....	76
3.5.3.1.4	Abnormal cases	76
3.5.3.2	Sending an RLC/MAC control message: single block packet downlink assignment procedure.....	77
4	Elementary procedures for Mobility Management.....	77
5	Elementary procedures for circuit-switched Call Control.....	77
6	Support for packet services	77
7	Examples of structured procedures	78
8	Handling of unknown, unforeseen, and erroneous protocol data.....	78
8.1	General	78
8.2	Message too short.....	78
8.3	Unknown or unforeseen transaction identifier	78
8.4	Unknown or unforeseen message type	79
8.5	Non-semantic mandatory information element errors	79
8.5.1	Radio resource management.....	79
8.6	Unknown and unforeseen IEs in the non-imperative message part.....	80
8.6.1	IEs unknown in the message	80
8.6.2	Out of sequence IEs	80
8.6.3	Repeated IEs	80
8.7	Non-imperative message part errors.....	80
8.7.1	Syntactically incorrect optional IEs.....	80
8.7.2	Conditional IE errors	80
8.8	Messages with semantically incorrect contents.....	81
9	Message functional definitions and contents.....	81
9.1	Messages for Radio Resources management.....	82
9.1.1	Additional assignment	84
9.1.1.1	Mobile Allocation	84
9.1.1.2	Starting Time.....	84
9.1.2	Assignment command.....	85
9.1.2.1	Mode of the First Channel (Channel Set 1) and Mode of Channel Set "X" ($2 \leq X \leq 8$).....	86
9.1.2.2	Description of the Second Channel	86
9.1.2.3	Mode of the Second Channel	86
9.1.2.4	Mobile Allocation and Frequency List, after the starting time.....	87
9.1.2.5	Starting Time.....	87
9.1.2.6	Reference cell frequency list.....	87
9.1.2.7	Cell Channel Description	87
9.1.2.8	Cipher Mode Setting	88
9.1.2.9	VGCS target mode Indication.....	88
9.1.2.10	Description of the multislot allocation	88
9.1.2.11	Multi Rate configuration	88
9.1.3	Assignment complete.....	88
9.1.4	Assignment failure.....	89
9.1.5	Channel mode modify.....	89
9.1.5.1	Channel Description.....	90
9.1.5.2	VGCS target mode Indication.....	90
9.1.5.3	Multi Rate configuration	90
9.1.6	Channel mode modify acknowledge.....	90
9.1.7	Channel release.....	91
9.1.7.1	Channel description and mobile allocation	91
9.1.7.2	Group Cipher Key Number	91
9.1.8	Channel request	92
9.1.9	Ciphering mode command.....	94
9.1.10	Ciphering mode complete.....	94
9.1.10.1	Mobile Equipment Identity	94
9.1.11	Classmark change	95
9.1.11.1	Additional Mobile Station Classmark Information	95
9.1.11.2	Mobile Station Classmark	95
9.1.12	Classmark enquiry	95
9.1.12a	Spare	96

9.1.12b	Configuration change command	96
9.1.12b.1	Description of the multislot allocation	96
9.1.12b.2	Mode of Channel Set "X" (1=<X<=8)	96
9.1.12c	Configuration change acknowledge	97
9.1.12d	Configuration change reject	97
9.1.13	Frequency redefinition	98
9.1.13.1	Cell Channel Description	98
9.1.13a	PDCH Assignment command	99
9.1.13a.1	Mobile Allocation and Frequency List, after the starting time	99
9.1.13a.2	Starting Time	100
9.1.13a.3	Reference cell frequency list	100
9.1.13a.4	Cell Channel Description	100
9.1.13a.5	Packet Assignment	100
9.1.13b	GPRS suspension request	101
9.1.14	Handover access	101
9.1.15	Handover command	101
9.1.15.1	Synchronization Indication	103
9.1.15.2	Mode of the First Channel (Channel Set 1) and Mode of Channel Set "X" (2=<X<=8)	103
9.1.15.3	Description of the Second Channel	103
9.1.15.4	Mode of the Second Channel	103
9.1.15.5	Frequency Channel Sequence, Frequency List, Frequency short list and Mobile Allocation, after time.	104
9.1.15.6	Starting Time	104
9.1.15.7	Reference cell frequency list	105
9.1.15.8	Real Time Difference	105
9.1.15.9	Timing Advance	105
9.1.15.10	Cipher Mode Setting	105
9.1.15.11	VGCS target mode indication	105
9.1.15.12	Description of the multislot allocation	105
9.1.15.13	MultiRateconfiguration	106
9.1.16	Handover complete	106
9.1.16.1	Mobile Observed Time Difference	106
9.1.17	Handover failure	106
9.1.18	Immediate assignment	107
9.1.18.0a	Dedicated mode or TBF	107
9.1.18.0b	Channel Description	107
9.1.18.0c	Packet Channel Description	108
9.1.18.0d	Request Reference	108
9.1.18.0e	Timing Advance	108
9.1.18.1	Mobile Allocation	108
9.1.18.2	Starting Time	108
9.1.18.3	IA Rest Octets (Frequency parameters, before time)	108
9.1.18.4	IA Rest Octets (assignment of uplink or downlink TBF)	108
9.1.19	Immediate assignment extended	109
9.1.19.1	Unnecessary IEs	109
9.1.19.2	Mobile Allocation	110
9.1.19.3	Starting Time	110
9.1.19.4	Maximum message length	110
9.1.19.5	IAX Rest Octets	110
9.1.20	Immediate assignment reject	110
9.1.20.1	Use of the indexes	111
9.1.20.2	Filling of the message	111
9.1.20.3	Wait Indication	111
9.1.20.4	IAR Rest Octets	111
9.1.21	Measurement report	112
9.1.21a	Notification/FACCH	112
9.1.21a.1	Spare	113
9.1.21a.2	Spare	113
9.1.21a.3	Spare	113
9.1.21a.4	Spare	113
9.1.21b	Notification/NCH	113
9.1.21b.1	Spare	114

9.1.21b.2	Spare	114
9.1.21c	Spare	114
9.1.21d	Spare	114
9.1.21e	RR-Cell Change Order.....	114
9.1.22	Paging request type 1	115
9.1.22.1	Unnecessary IE	115
9.1.22.2	Channels needed for Mobiles 1 and 2	116
9.1.22.3	Mobile Identities	116
9.1.22.4	P1 Rest Octets	116
9.1.23	Paging request type 2.....	116
9.1.23.1	Channels needed for Mobiles 1 and 2	117
9.1.23.2	Mobile Identity 3.....	117
9.1.23.3	P2 Rest Octets	117
9.1.24	Paging request type 3.....	117
9.1.24.1	Channels needed for Mobiles 1 and 2	118
9.1.24.2	P3 Rest Octets	118
9.1.25	Paging response	118
9.1.25.1	Mobile Station Classmark	118
9.1.26	Partial release.....	118
9.1.26.1	Channel Description.....	119
9.1.27	Partial release complete	119
9.1.28	Physical information	119
9.1.28.a	RR Initialisation Request	120
9.1.29	RR Status	120
9.1.30	Synchronization channel information	121
9.1.31	System information Type 1.....	121
9.1.32	System information type 2.....	122
9.1.33	System information type 2bis	122
9.1.34	System information type 2ter.....	123
9.1.35	System information type 3.....	124
9.1.36	System information type 4.....	124
9.1.36.1	CBCH Channel description	125
9.1.36.2	CBCH Mobile Allocation	125
9.1.36.3	SI 4 Rest Octets	125
9.1.37	System information type 5.....	125
9.1.38	System information type 5bis	126
9.1.39	System information type 5ter.....	126
9.1.40	System information type 6.....	127
9.1.40.1	Cell Identity.....	128
9.1.40.2	Location Area Identification	128
9.1.40.3	Cell Options	128
9.1.40.4	NCC permitted	128
9.1.41	System information type 7	128
9.1.42	System information type 8.....	129
9.1.43	System information Type 9.....	129
9.1.43a	System information Type 13.....	129
9.1.43b	[Spare]	130
9.1.43c	[Spare]	130
9.1.43d	System information type 16.....	130
9.1.43e	System information type 17	130
9.1.43f	System information type 19.....	131
9.1.43g	System information type 18.....	132
9.1.43h	System information type 20.....	132
9.1.44	Talker indication.....	132
9.1.45	Uplink access	133
9.1.46	Uplink busy.....	133
9.1.47	Uplink free	134
9.1.48	Uplink release	135
9.1.49	VGCS uplink grant	135
9.1.50	System information type 10 \$(ASCII)\$	135
9.1.51	EXTENDED MEASUREMENT ORDER	136
9.1.52	Extended measurement report.....	137

9.1.53	Application Information	137
9.2	Messages for mobility management	137
9.3	Messages for circuit-switched call control	137
9.4	GPRS Mobility Management Messages.....	138
9.5	GPRS Session Management Messages.....	138
10	General message format and information elements coding.....	138
10.1	Overview	138
10.2	Protocol Discriminator	138
10.3	Skip indicator	139
10.3.1	Skip indicator.....	139
10.4	Message Type.....	139
10.5	Other information elements	141
10.5.1	Common information elements.....	142
10.5.2	Radio Resource management information elements.....	142
10.5.2.1a	BA Range.....	142
10.5.2.1b	Cell Channel Description	144
10.5.2.1b.1	General description.....	145
10.5.2.1b.2	Bit map 0 format.....	146
10.5.2.1b.3	Range 1024 format	146
10.5.2.1b.4	Range 512 format	147
10.5.2.1b.5	Range 256 format	148
10.5.2.1b.6	Range 128 format	149
10.5.2.1b.7	Variable bit map format.....	150
10.5.2.1c	BA List Pref	150
10.5.2.2	Cell Description	151
10.5.2.3	Cell Options (BCCH).....	152
10.5.2.3a	Cell Options (SACCH).....	152
10.5.2.4	Cell Selection Parameters	154
10.5.2.4a	MAC Mode and Channel Coding Requested.....	156
10.5.2.5	Channel Description.....	156
10.5.2.5a	Channel Description 2.....	158
10.5.2.6	Channel Mode.....	160
10.5.2.7	Channel Mode 2	161
10.5.2.8	Channel Needed	162
10.5.2.8a	Channel Request Description	162
10.5.2.9	Cipher Mode Setting	164
10.5.2.10	Cipher Response	165
10.5.2.11	Control Channel Description.....	165
10.5.2.12	Frequency Channel Sequence	167
10.5.2.13	Frequency List.....	168
10.5.2.13.1	General description.....	169
10.5.2.13.2	Bit map 0 format.....	169
10.5.2.13.3	Range 1024 format	170
10.5.2.13.4	Range 512 format	172
10.5.2.13.5	Range 256 format	174
10.5.2.13.6	Range 128 format	177
10.5.2.13.7	Variable bit map format.....	180
10.5.2.14	Frequency Short List.....	180
10.5.2.14a	Frequency Short List 2.....	180
10.5.2.14b	Group Channel Description.....	181
10.5.2.14c	GPRS Resumption	183
10.5.2.15	Handover Reference.....	183
10.5.2.16	IA Rest Octets	184
10.5.2.17	IAR Rest Octets	189
10.5.2.18	IAX Rest Octets	189
10.5.2.19	L2 Pseudo Length	190
10.5.2.20	Measurement Results	190
10.5.2.20a	GPRS Measurement Results	194
10.5.2.21	Mobile Allocation	195
10.5.2.21a	Mobile Time Difference.....	196
10.5.2.21aa	MultiRate configuration	196

10.5.2.21b	Multislot Allocation	199
10.5.2.21c	NC mode	201
10.5.2.22	Neighbour Cells Description	201
10.5.2.22a	Neighbour Cells Description 2	202
10.5.2.22b	Void	203
10.5.2.22c	NT/N Rest Octets	203
10.5.2.23	P1 Rest Octets	203
10.5.2.24	P2 Rest Octets	204
10.5.2.25	P3 Rest Octets	205
10.5.2.25a	Packet Channel Description	206
10.5.2.25b	Dedicated mode or TBF	208
10.5.2.25c	RR Packet Uplink Assignment	208
10.5.2.25d	RR Packet Downlink Assignment	215
10.5.2.26	Page Mode	217
10.5.2.26a	Spare	217
10.5.2.26b	Spare	217
10.5.2.26c	Spare	217
10.5.2.26d	Spare	217
10.5.2.27	NCC Permitted	217
10.5.2.28	Power Command	218
10.5.2.28a	Power Command and access type	218
10.5.2.29	RACH Control Parameters	219
10.5.2.30	Request Reference	220
10.5.2.31	RR Cause	221
10.5.2.32	SI 1 Rest Octets	222
10.5.2.33	SI 2bis Rest Octets	223
10.5.2.33a	SI 2ter Rest Octets	223
10.5.2.34	SI 3 Rest Octets	224
10.5.2.35	SI 4 Rest Octets	225
10.5.2.35a	SI 6 Rest Octets	228
10.5.2.36	SI 7 Rest Octets	229
10.5.2.37	SI 8 Rest Octets	229
10.5.2.37a	SI 9 Rest Octets	230
10.5.2.37b	SI 13 Rest Octets	232
10.5.2.37c	[Spare]	234
10.5.2.37d	[Spare]	234
10.5.2.37e	SI 16 Rest Octets	234
10.5.2.37f	SI 17 Rest Octets	235
10.5.2.37g	SI 19 Rest Octets	236
10.5.2.37h	SI 18 Rest Octets	238
10.5.2.37i	SI 20 Rest Octets	239
10.5.2.38	Starting Time	239
10.5.2.39	Synchronization Indication	240
10.5.2.40	Timing Advance	241
10.5.2.41	Time Difference	241
10.5.2.41a	TLLI	242
10.5.2.42	TMSI/P-TMSI	242
10.5.2.42a	VGCS target mode Indication	243
10.5.2.43	Wait Indication	244
10.5.2.44	SI10 rest octets \$(ASCII)\$	244
10.5.2.45	EXTENDED MEASUREMENT RESULTS	247
10.5.2.46	Extended Measurement Frequency List	249
10.5.2.47	Suspension Cause	250
10.5.2.48	APDU ID	251
10.5.2.49	APDU Flags	251
10.5.2.50	APDU Data	252
10.5.3	Mobility management information elements	252
10.5.4	Call control information elements	252
10.5.5	GPRS mobility management information elements	253
10.5.6	Session management information elements	253
10.5.7	GPRS Common information elements	253

STANDARD PREVIEW
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SIST EN 301 503 V8.3.1:2003

<https://standards.iteh.ai/catalog/standards/sist/16775b65-3548-4cb1-800a->

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11	List of system parameters.....	253
11.1	Timers and counters for radio resource management.....	253
11.1.1	Timers on the mobile station side.....	253
11.1.2	Timers on the network side.....	255
11.1.3	Other parameters.....	256
11.2	Timers of mobility management.....	256
11.3	Timers of circuit-switched call control.....	256
Annex A (informative):	Example of subaddress information element coding.....	257
Annex B (normative):	Compatibility checking.....	258
Annex C (normative):	Low layer information coding principles.....	259
Annex D (informative):	Examples of bearer capability information element coding.....	260
Annex E (informative):	Comparison between call control procedures specified in GSM [24.008] and CCITT Recommendation Q.931.....	261
Annex F (informative):	GSM specific cause values for radio resource management.....	262
Annex G (informative):	GSM specific cause values for mobility management.....	264
Annex H (informative):	GSM specific cause values for call control.....	265
Annex I (informative):	GSM specific cause values for session management.....	266
Annex J (informative):	Algorithm to encode frequency list information elements.....	267
J.1	Introduction.....	267
J.2	General principle.....	267
J.3	Performances.....	269
J.4	Encoding algorithm.....	270
J.5	Decoding.....	272
J.6	A detailed example.....	273
Annex K (informative):	Default Codings of Information Elements.....	275
K.1	Common information elements.....	275
K.2	Radio Resource management information elements.....	275
Annex L (normative):	Additional Requirements for backward compatibility with PCS 1900 for NA revision 0 ME.....	277
Annex M (informative):	Change Record.....	278
History	279

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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Special Mobile Group (SMG).

The present document specifies the procedures used at the radio interface (Reference Point Um, see GSM 04.02) for Radio Resource (RR) management within the digital cellular telecommunications system.

The contents of the present document may be subject to continuing work within SMG and may change following formal SMG approval. Should SMG modify the contents of the present document it will then be re-submitted for formal approval procedures by ETSI with an identifying change of release date and an increase in version number as follows:

Version 8.x.y

where:

- 8 GSM Phase 2+ Release 1999. [SIST EN 301 503 V8.3.1:2003](https://standards.iteh.ai/catalog/standards/sist/16775b65-3548-4cb1-800a-b4c57251d8/sist-en-301-503-v8-3-1-2003)
- x the second digit is incremented for changes of substance, i.e. technical enhancements, corrections, updates, etc.;
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1 Scope

The present document specifies the procedures used at the radio interface (Reference Point Um, see GSM 04.02) for Radio Resource (RR) management.

Notation "Reserved clause number" is used to indicate which clauses of the specification were moved from this part of the standard to the other part when the present document was split between RAN and CN parts.

When the notations for "further study" or "FS" or "FFS" are present in this specification they mean that the indicated text is not a normative portion of the present document.

These procedures are defined in terms of messages exchanged over the control channels of the radio interface. The control channels are described in GSM 04.03.

The structured functions and procedures of this protocol and the relationship with other layers and entities are described in general terms in TS 24.007.

1.1 Scope of the Technical Specification

The procedures currently described in the present document are for radio resource management for circuit-switched and GPRS services.

TS 24.010 contains functional procedures for support of supplementary services.

GSM 04.11 contains functional procedures for support of point-to-point short message services.

GSM 04.12 contains functional description of short message - cell broadcast.

GSM 04.60 contains procedures for radio link control and medium access control (RLC/MAC) of packet data physical channels.

TS 24.071 contains functional descriptions and procedures for support of location services.

TS 24.008 contains the procedures for CN protocols.

NOTE: "layer 3" includes the functions and protocols described in the present document. The terms "data link layer" and "layer 2" are used interchangeably to refer to the layer immediately below layer 3.

1.2 Application to the interface structures

The layer 3 procedures apply to the interface structures defined in GSM 04.03. They use the functions and services provided by layer 2 defined in GSM 04.05 and GSM 04.06. TS 24.007 gives the general description of layer 3 including procedures, messages format and error handling.

1.3 Structure of layer 3 procedures

A building block method is used to describe the layer 3 procedures.

The basic building blocks are "elementary procedures" provided by the protocol control entities of the three sublayers, i.e. radio resource management, mobility management and connection management sublayer.

Complete layer 3 transactions consist of specific sequences of elementary procedures. The term "structured procedure" is used for these sequences.

1.4 Test procedures

Test procedures of the GSM radio interface signalling are described in GSM 11.10 and GSM 11.2x series.