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Contents

Intellectual Property Rights	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	13
1 Scope	14
2 References	14
3 Definitions, abbreviations and symbols	19
3.1 Definitions	19
3.2 Abbreviations	20
3.3 Symbols.....	22
4 Main Concept.....	23
5 General GPRS Architecture and Transmission Mechanism.....	24
5.1 GPRS Access Interfaces and Reference Points	24
5.2 Network Interworking	25
5.2.1 Internet (IP) Interworking.....	25
5.3 High-Level Functions.....	25
5.3.0 General.....	25
5.3.1 Network Access Control Functions	26
5.3.1.1 Registration Function	26
5.3.1.2 Authentication and Authorisation Function	26
5.3.1.3 Admission Control Function	26
5.3.1.4 Message Screening Function.....	26
5.3.1.5 Packet Terminal Adaptation Function.....	26
5.3.1.6 Charging Data Collection Function.....	26
5.3.1.7 Operator Determined Barring Function	26
5.3.2 Packet Routing and Transfer Functions	27
5.3.2.1 Relay Function	27
5.3.2.2 Routing Function.....	27
5.3.2.3 Address Translation and Mapping Function	27
5.3.2.4 Encapsulation Function.....	27
5.3.2.5 Tunneling Function	27
5.3.2.6 Compression Function	27
5.3.2.7 Ciphering Function.....	27
5.3.2.8 Domain Name Server Function.....	28
5.3.2.9 DHCP function.....	28
5.3.3 Mobility Management Functions	28
5.3.3.1 General	28
5.3.3.2 Idle Mode Signalling Reduction Function	28
5.3.4 Logical Link Management Functions (A/Gb mode).....	28
5.3.4.1 Logical Link Establishment Function	28
5.3.4.2 Logical Link Maintenance Functions.....	28
5.3.4.3 Logical Link Release Function	28
5.3.5 Radio Resource Management Functions.....	28
5.3.5.1 General	28
5.3.5.2 RAT/Frequency Selection Priority.....	28
5.3.5.3 Service identification for improved radio utilisation for GERAN	29
5.3.6 Network Management Functions	30
5.3.6.1 General	30
5.3.6.1a GTP-C signalling based Load and Overload Control.....	30
5.3.6.2 NAS level congestion control	31
5.3.6.2.1 General	31
5.3.6.2.2 APN based Session Management congestion control.....	31
5.3.6.2.3 APN based Mobility Management congestion control.....	32

5.3.6.2.4	General NAS level Mobility Management congestion control.....	33
5.3.6.2.5	Group specific NAS level congestion control	34
5.3.6.2.6	APN and group specific NAS level congestion control.....	34
5.3.6.3	GGSN control of overload	35
5.3.6.4	SGSN control of overload.....	35
5.3.6.5	S4-SGSN control of overload	36
5.3.6.6	Throttling of NIDD Submit Requests	36
5.3.7	Selection functions.....	36
5.3.7.1	SGW/PGW/GGSN selection function (3GPP accesses).....	36
5.3.7.2	Serving GW selection function	37
5.3.7.3	SGSN selection function	37
5.3.8	IMS voice over PS Session Supported Indication.....	37
5.3.8A	Homogenous Support of IMS Voice over PS Sessions Indication	38
5.3.9	Closed Subscriber Group functions	38
5.3.10	UE Reachability function.....	38
5.3.11	Location Service functions	38
5.3.12	Selected IP Traffic Offload (SIPTO) function.....	39
5.3.12.1	SIPTO with GW Selection	39
5.3.12.1A	SIPTO at the Local Network.....	39
5.3.12.1A.1	General	39
5.3.12.1A.2	SIPTO at the Local Network with stand-alone GW (S-GW/L-GW collocated) function.....	40
5.3.12.1A.3	SIPTO at the Local Network with L-GW function collocated with HNB	40
5.3.12.2	Support for SIPTO at Iu-ps	40
5.3.13	Machine Type Communication (MTC)	40
5.3.13.1	General	40
5.3.13.2	Overview of Protection from Potential MTC Related Overload.....	41
5.3.13.3	MS configuration and usage of indicators.....	42
5.3.13.4	Void.....	44
5.3.13.5	Optimizing periodic RAU Signalling.....	44
5.3.13.6	Support of MSs configured for low access priority, Extended Access Barring and permission for override	45
5.3.13.7	High latency communication	45
5.3.13.8	Support for Non-IP data	46
5.3.13.8.1	General	46
5.3.13.8.2	PDP Context Activation Procedure	46
5.3.13.8.3	Delivery mechanism.....	46
5.3.13.9	Introduction of CIoT GSM Optimisation.....	46
5.3.13.10	Restriction of use of Enhanced Coverage	47
5.3.14	Local IP Access (LIPA) function.....	47
5.3.15	Voice domain preference and UE's usage setting	47
5.3.16	Support for Application / Service Layer Rate Adaptation	47
5.3.17	Support for subscriptions without MSISDN.....	48
5.3.18	PS-only Service Provision and PS domain SMS support	48
5.3.19	Access and Mobility Restrictions	49
5.3.20	MS Power Saving Mode.....	50
5.3.21	Access network selection and traffic steering based on RAN-assisted WLAN interworking	50
5.3.22	User plane congestion management function	51
5.3.23	Dedicated Core Networks (DCNs)	51
5.3.23.1	General	51
5.3.24	Support for Monitoring Events.....	51
5.3.25	3GPP PS Data Off	51
5.3.25.1	General	51
5.4	Logical Architecture.....	52
5.4.0	General.....	52
5.4.1	GPRS Core Network Nodes	53
5.4.1.1	General	53
5.4.1.2	Gateway GPRS Support Node	53
5.4.1.3	Serving GPRS Support Node	53
5.4.1.4	Serving Gateway	54
5.4.1.5	PDN Gateway	54
5.4.2	Packet Domain PLMN Backbone Networks	54
5.4.3	HLR/HSS.....	56

5.4.4	SMS-GMSC and SMS-IW MSC	56
5.4.5	Mobile Stations (A/Gb mode).....	56
5.4.6	Mobile Stations (Iu mode)	56
5.4.7	Charging Gateway Functionality	57
5.4.8	PCRF	57
5.4.9	HNB subsystem	57
5.4.10	CSG Subscriber Server	58
5.4.11	RAN Congestion Awareness Function (Iu mode)	59
5.5	Assignment of Functions to General Logical Architecture	60
5.6	User and Control Planes	60
5.6.1	User Plane (A/Gb mode).....	60
5.6.1.1	MS – P-GW/GGSN.....	60
5.6.1.2	Core Network Node - Core Network Node.....	62
5.6.2	User Plane (Iu mode)	62
5.6.2.1	MS – GGSN user plane with GERAN in Iu mode.....	62
5.6.2.2	MS – P-GW/GGSN user plane with UTRAN.....	63
5.6.2.3	Core Network Node - Core Network Node.....	64
5.6.3	Control Plane	64
5.6.3.1	MS - SGSN (A/Gb mode).....	65
5.6.3.2	MS – SGSN (Iu mode).....	65
5.6.3.3	Gn/Gp-SGSN - HLR.....	66
5.6.3.4	SGSN - MSC/VLR.....	66
5.6.3.5	SGSN - EIR.....	66
5.6.3.5a	S4-SGSN - EIR	67
5.6.3.6	SGSN - SMS-GMSC or SMS-IW MSC.....	67
5.6.3.7	Core Network Node - Core Network Node.....	68
5.6.3.8	GGSN - HLR	68
5.6.3.8.1	MAP-based GGSN - HLR Signalling.....	68
5.6.3.8.2	GTP and MAP-based GGSN - HLR Signalling	69
5.6.3.9	S4-SGSN - HSS	69
5.6.3.10	Gn/Gp-SGSN - CSS.....	70
5.6.3.11	S4-SGSN - CSS	70
5.6.3.12	SGSN - RCAF (Iu mode).....	71
5.7	Functionality Needed for Mobile IPv4.....	71
5.8	Functionality for Intra Domain Connection of RAN Nodes to Multiple CN Nodes	71
5.9	Functionality for network sharing	72
5.10	IMS Emergency Session Support.....	72
5.10.1	Introduction.....	72
5.10.2	PS Domain Functions for IMS Emergency Session Support.....	72
5.10.2.1	General.....	72
5.10.2.2	Reachability Management for Emergency Attached MS in PMM-IDLE state	73
5.10.2.3	Mobility and Access Restrictions for Emergency Services.....	73
5.10.3	Attach handling.....	73
5.10.4	PDP Context Activation for emergency bearer services.....	74
5.10.5	Handling of PDN Connections for Emergency Bearer Services.....	74
6	Mobility Management Functionality	75
6.1	Definition of Mobility Management States	75
6.1.0	General.....	75
6.1.1	Mobility Management States (A/Gb mode).....	75
6.1.1.1	IDLE (GPRS) State	75
6.1.1.2	STANDBY State	75
6.1.1.3	READY State	76
6.1.1.4	State Transitions and Functions	77
6.1.2	Mobility Management States (Iu mode)	78
6.1.2.1	PMM-DETACHED State.....	78
6.1.2.2	PMM-IDLE State	78
6.1.2.3	PMM-CONNECTED State.....	78
6.1.2.4	State Transitions and Functions	79
6.1.2.4.1	Handling of Un-synchronous States in the UE and the Network	80
6.2	Mobility Management Timer Functions.....	81
6.2.1	READY Timer Function (A/Gb mode)	81

6.2.2	Periodic RA Update Timer Function	81
6.2.3	Mobile Reachable Timer Function	82
6.3	Interactions Between SGSN and MSC/VLR.....	83
6.3.0	General.....	83
6.3.1	Administration of the SGSN - MSC/VLR Association	83
6.3.2	Combined RA / LA Updating	84
6.3.3	CS Paging (A/Gb mode).....	85
6.3.3.1	Paging Co-ordination in A/Gb mode	85
6.3.4	CS Paging (Iu mode).....	87
6.3.4.1	Network Operation Modes for Iu mode	87
6.3.4a	CS Paging (in case Selective RA Update)	88
6.3.5	Non-GPRS Alert.....	88
6.3.6	MS Information Procedure	88
6.3.7	MM Information Procedure	89
6.4	MM Procedures	89
6.5	GPRS Attach Function	90
6.5.0	General.....	90
6.5.1	A/Gb mode GPRS Attach Procedure	90
6.5.2	Iu mode GPRS Attach Procedure	91
6.5.3	Combined GPRS / IMSI Attach procedure.....	92
6.5.3A	Combined GPRS / IMSI Attach procedure, Delete Bearer by the new SGSN, using S4.....	98
6.5.3B	Combined GPRS / IMSI Attach procedure, Delete Bearer by the old SGSN, using S4	98
6.6	Detach Function	99
6.6.1	MS-Initiated Detach Procedure.....	100
6.6.2	Network-Initiated Detach Procedure	101
6.6.2.1	SGSN-Initiated Detach Procedure	101
6.6.2.2	HLR-Initiated Detach Procedure.....	102
6.6.3	SGSN interaction during Detach Procedure when using S4	103
6.7	Purge Function	104
6.8	Security Function	104
6.8.0	General.....	104
6.8.1	Authentication.....	105
6.8.1.1	GSM Authentication procedure	105
6.8.1.2	UMTS Authentication procedure	106
6.8.2	User Identity Confidentiality	106
6.8.2.1	User Identity Confidentiality (A/Gb mode)	106
6.8.2.2	User Identity Confidentiality (Iu mode).....	107
6.8.2.3	P-TMSI Signature	107
6.8.2.4	P-TMSI Reallocation Procedure	107
6.8.3	User Data and GMM/SM Signalling Confidentiality	107
6.8.3.1	Scope of Ciphering.....	107
6.8.3.2	Ciphering Algorithm	108
6.8.3.3	Start of Ciphering.....	108
6.8.4	Identity Check Procedures	108
6.8.5	Data Integrity Procedure (Iu mode).....	108
6.9	Location Management Function.....	109
6.9.0	General.....	109
6.9.1	Location Management Procedures (A/Gb mode)	109
6.9.1.1	Cell Update Procedure	110
6.9.1.2	Routeing Area Update Procedure.....	110
6.9.1.2.0	General	110
6.9.1.2.1	Intra SGSN Routeing Area Update.....	111
6.9.1.2.2	Inter SGSN Routeing Area Update.....	113
6.9.1.2.2a	Inter SGSN Routeing Area Update and Combined Inter SGSN RA / LA Update using S4.....	118
6.9.1.3	Combined RA / LA Update Procedure.....	120
6.9.1.3.0	General	120
6.9.1.3.1	Combined Intra SGSN RA / LA Update	121
6.9.1.3.2	Combined Inter SGSN RA / LA Update	123
6.9.2	Location Management Procedures (Iu-mode).....	129
6.9.2.1	Routeing Area Update Procedure.....	130
6.9.2.1a	Routeing Area Update Procedure using S4.....	139
6.9.2.2	Serving RNS Relocation Procedures.....	141

6.9.2.2.1	Serving RNS Relocation Procedure.....	142
6.9.2.2.1a	Serving RNS Relocation Procedure, Combined Hard Handover and SRNS Relocation Procedure, and Combined Cell / URA Update and SRNS Relocation Procedure Using S4	149
6.9.2.2.2	Combined Hard Handover and SRNS Relocation Procedure.....	150
6.9.2.2.3	Combined Cell / URA Update and SRNS Relocation Procedure.....	157
6.9.2.2.4	SRNS Relocation Cancel Procedure.....	163
6.9.2.2.4a	SRNS Relocation Cancel Procedure Using S4.....	164
6.9.2.2.5	Enhanced Serving RNS Relocation Procedure.....	164
6.9.2.2.5A	Enhanced Serving RNS Relocation Procedure using S4	166
6.9.3	Periodic RA and LA Updates	168
6.9.4	PS Handover Procedure	168
6.9.5	UE Radio Capability Match Request.....	169
6.10	Tunnelling of non-GSM Signalling Messages Function (A/Gb mode).....	170
6.10.1	Uplink Tunnelling of non-GSM Signalling Messages Procedure.....	170
6.10.2	Downlink Tunnelling of non-GSM Signalling Messages Procedure.....	171
6.11	Subscriber Management Function.....	171
6.11.1	Subscriber Management Procedures.....	171
6.11.1.1	Insert Subscriber Data Procedure	171
6.11.1.2	Delete Subscriber Data Procedure.....	172
6.11.1.3	Insert CSG Subscriber Data Procedure	173
6.12	Service Request Procedure (Iu mode).....	173
6.12.0	General.....	173
6.12.1	MS Initiated Service Request Procedure Using Gn/Gp.....	174
6.12.1A	UE Initiated Service Request Procedure Using S4	176
6.12.2	Network Initiated Service Request Procedure using Gn/Gp.....	177
6.12.2A	Void	180
6.13	Intersystem Change	180
6.13.1	Intra SGSN Intersystem Change.....	180
6.13.1.1	Iu mode to A/Gb mode Intra SGSN Change.....	180
6.13.1.1.1	Iu mode to A/Gb mode Intra SGSN Change using Gn/Gp.....	180
6.13.1.1.2	Iu mode to A/Gb mode Intra SGSN Change using S4.....	183
6.13.1.2	A/Gb mode to Iu mode Intra-SGSN Change.....	184
6.13.1.2.1	A/Gb mode to Iu mode Intra-SGSN Change using Gn/Gp.....	184
6.13.1.2.2	A/Gb mode to Iu mode Intra-SGSN Change using S4	187
6.13.1.3	Selective RA Update.....	188
6.13.1.3.1	Uplink Signalling or Data Transmission	188
6.13.1.3.2	Downlink Signalling or Data Transmission.....	188
6.13.2	Inter-SGSN Inter-system Change	189
6.13.2.1	Iu mode to A/Gb mode Inter-SGSN Change.....	189
6.13.2.1.1	Iu mode to A/Gb mode Inter-SGSN Change using Gn/Gp.....	189
6.13.2.1.2	Iu mode to A/Gb mode Inter-SGSN Change using S4	194
6.13.2.2	A/Gb mode to Iu mode Inter-SGSN Change.....	196
6.13.2.2.1	A/Gb mode to Iu mode Inter-SGSN Change using Gn/Gp.....	196
6.13.2.2.2	A/Gb mode to Iu mode Inter-SGSN Change using S4	201
6.14	Classmark Handling	203
6.14.1	Radio Access Classmark.....	203
6.14.1.1	MS Radio Access Capability (A/Gb mode)	203
6.14.1.2	UE Capability (Iu mode).....	204
6.14.2	Core Network Capability	204
6.14.3	Gb Coverage Class Information.....	205
6.15	UE Reachability procedures	205
6.16	Update CSG Location Procedure	206
6.17	APN information retrieval procedure.....	206
6.18	Procedures to support Dedicated Core Networks.....	207
6.18.1	NAS Message Redirection Procedure.....	207
6.18.2	Attach and RAU procedure for Dedicated Core Network	207
6.18.2a	Impacts to Relocation Procedures.....	208
6.18.3	SGSN or HSS initiated Dedicated Core Network Reselection	208
7	Network Management Functionality.....	208
8	Radio Resource Functionality	208

8.1	Radio Resource Functionality (A/Gb mode)	208
8.1.1	Cell Selection and Reselection.....	208
8.1.2	Discontinuous Reception	208
8.1.2a	Extended idle mode Discontinuous Reception (DRX)	209
8.1.2a.1	General	209
8.1.2a.2	Paging group occurrence determination in Gb mode	209
8.1.2a.3	Paging coordination between the MS and network in Iu mode	210
8.1.3	Radio Resource Management	210
8.1.3.1	Layer Functions.....	210
8.1.3.2	Model of Operation	210
8.1.3.2.1	Dynamic Allocation of Radio Resources	210
8.1.3a	Ready to Standby state transition in S4 architecture.....	211
8.1.4	Paging for GPRS Downlink Transfer (A/Gb mode)	211
8.1.4A	Paging response for GPRS Downlink Transfer with no established user plane on S4	213
8.1.5	RAN Information Management (RIM) procedures.....	213
8.1.5.1	General	213
8.1.5.2	Addressing, routing and relaying	214
8.1.5.2.1	Addressing.....	214
8.1.5.2.2	Routing	214
8.1.5.2.3	Relaying.....	214
8.1.5.3	Void.....	214
8.1.5.4	Void.....	214
8.1.5.5	Applications using the RIM Procedures.....	214
8.1.6	BSS Paging Co-ordination.....	215
8.2	Radio Resource Functionality (Iu mode).....	215
8.2.1	Radio Resource Management	215
8.2.2	RRC State Machine	215
8.2.3	Discontinuous Reception	216
8.2.3a	Extended idle mode Discontinuous Reception (DRX)	217
8.2.3a.1	General	217
8.2.4	Paging Initiated by CN	217
8.2.4.1	PS Paging Initiated by SGSN (Iu mode) without RRC Connection for CS	217
8.2.4.1A	Serving GW Triggered Paging (Iu mode) with S4.....	218
8.2.4.2	PS Paging Initiated by 3G-SGSN With RRC Connection for CS.....	219
8.2.5	Paging Initiated by RAN.....	219
9	Packet Routing and Transfer Functionality	220
9.1	Definition of Packet Data Protocol States	220
9.1.0	General.....	220
9.1.1	INACTIVE State	220
9.1.2	ACTIVE State.....	221
9.2	PDP Context Activation, Modification, Deactivation, and Preservation Functions	221
9.2.0	General.....	221
9.2.1A	Principles for mapping between PDP Contexts and EPS Bearers.....	225
9.2.1	Static and Dynamic PDP Addresses	225
9.2.1.1	Stateless IPv6 Address Autoconfiguration.....	227
9.2.1.2	IPv6 Prefix Delegation via DHCPv6.....	229
9.2.2	Activation Procedures.....	230
9.2.2.1	PDP Context Activation Procedure.....	230
9.2.2.1A	PDP Context Activation Procedure using S4.....	235
9.2.2.1.1	Secondary PDP Context Activation Procedure	239
9.2.2.1.1A	Secondary PDP Context Activation Procedure, PDP Creation part, using S4.....	242
9.2.2.1.1B	Void.....	244
9.2.2.2	Network-Requested PDP Context Activation Procedure	244
9.2.2.2.1	Successful Network-Requested PDP Context Activation Procedure.....	245
9.2.2.2.2	Unsuccessful Network-Requested PDP Context Activation Procedure	245
9.2.2.3	Network Requested Secondary PDP Context Activation Procedure using Gn	247
9.2.2.3A	Network Requested Secondary PDP Context Activation Procedure using S4.....	248
9.2.2.4	S4-SGSN triggered Serving GW relocation.....	250
9.2.3	Modification Procedures.....	252
9.2.3.0	General	252
9.2.3.1	SGSN-Initiated PDP Context Modification Procedure	253

9.2.3.1A	Request part of SGSN-Initiated EPS Bearer Modification Procedure using S4.....	256
9.2.3.1B	Update part of SGSN-Initiated EPS Bearer Modification Procedure using S4.....	256
9.2.3.2	GGSN-Initiated PDP Context Modification Procedure	257
9.2.3.2A	PDN GW Initiated EPS Bearer Modification Procedure, using S4.....	259
9.2.3.3	MS-Initiated PDP Context Modification Procedure.....	261
9.2.3.3A	Request part of MS-Initiated EPS Bearer Modification Procedure using S4.....	263
9.2.3.3B	Execution part of MS-Initiated Modification Procedure using S4.....	266
9.2.3.3C	Response part of MS-Initiated Modification Procedure using S4.....	267
9.2.3.4	RNC/BSS-Initiated PDP Context Modification Procedure	268
9.2.3.5	RAB Release-Initiated Local PDP Context Modification Procedure.....	269
9.2.3.6	RAN-initiated RAB Modification Procedure (Iu mode).....	270
9.2.3.7	SGSN-initiated procedure on UE's CSG membership change	270
9.2.4	Deactivation Procedures	271
9.2.4.1	MS Initiated PDP Context Deactivation Procedure	271
9.2.4.1A	MS- and SGSN Initiated Bearer Deactivation Procedure using S4.....	272
9.2.4.1A.1	MS-and SGSN Initiated PDN connection Deactivation Procedure using S4	272
9.2.4.1A.2	MS-and SGSN Initiated Bearer Deactivation Procedure.....	273
9.2.4.2	SGSN-initiated PDP Context Deactivation Procedure.....	275
9.2.4.3	GGSN-initiated PDP Context Deactivation Procedure	276
9.2.4.3A	PDN GW initiated Bearer Deactivation Procedure using S4, part 1	277
9.2.4.3B	PDN GW initiated Bearer Deactivation Procedure using S4, part 2	278
9.2.5	Preservation Procedures.....	278
9.2.5.1	Release of RABs Triggered by an Iu mode RAN	278
9.2.5.1.1	RAB Release Procedure	278
9.2.5.1.2	Iu Release Procedure	278
9.2.5.2	Re-establishment of RABs.....	279
9.3	Packet Routing and Transfer Function	279
9.4	Relay Function	281
9.5	Packet Terminal Adaptation Function.....	281
9.6	Encapsulation Function	281
9.6.1	Encapsulation Between Core Network Nodes	282
9.6.2	Encapsulation Between SGSN and RAN in Iu mode	282
9.6.3	Encapsulation Between SGSN and MS in A/Gb mode.....	282
9.6.4	Encapsulation Between RAN and MS in Iu mode.....	282
9.7	Home NodeB Multicast Packet Forwarding Function.....	282
10	Message Screening Functionality.....	282
11	Compatibility Issues.....	282
11.1	Interaction between Releases 97/98 and 99.....	283
11.1.1	Interactions Between GTP v0 (R97) and GTP v1 (R99)	283
11.1.2	Interactions Between MS R97 and CN R99	283
11.1.3	Interactions Between SM R97 and SM R99	283
11.1.4	Interactions Between MAP R97 and MAP R99	283
11.1a	Interactions between Release 7 and earlier Releases.....	283
11.1a.1	Interactions Between CN (R7) and Iu-mode RAN (pre-R7).....	283
11.1a.2	Interactions between CN and RAN to handle Rel-7 QoS extensions	283
11.2	Network Configuration for Interaction with E-UTRAN and S4-SGSNs	284
11.3	Interactions between CN and RAN to support higher bit rates	284
12	Transmission	284
12.1	Transmission Modes.....	284
12.1.1	GTP-U Transmission Modes	284
12.1.2	LLC Transmission Modes (A/Gb mode)	285
12.1.3	RLC Transmission Modes	285
12.2	Logical Link Control Functionality (A/Gb mode).....	285
12.2.1	Addressing	285
12.2.2	Services.....	285
12.2.3	Functions	286
12.3	Subnetwork Dependent Convergence Functionality (A/Gb mode).....	286
12.3.1	Services.....	287
12.3.2	Subfunctions	287
12.4	PDCP (Iu mode).....	288

12.5	Point-to-Point Protocol Functionality.....	288
12.5.1	User Plane for PDP Type PPP.....	288
12.5.2	Functions.....	289
12.6	Gb Interface (A/Gb mode).....	289
12.6.1	Physical Layer Protocol.....	289
12.6.2	Link Layer Protocols.....	289
12.6.3	BSS GPRS Protocol.....	289
12.6.3.1	Inter-dependency of the BSSGP and LLC Functions.....	290
12.6.3.2	BSSGP Addressing.....	290
12.6.3.3	BVCI Contexts in BSS and in SGSN.....	291
12.6.3.4	Flow Control Between SGSN and BSS over the Gb Interface.....	291
12.6.3.5	BSS Context.....	291
12.6.3.5.1	BSS Packet Flow Context Creation Procedure.....	292
12.6.3.5.2	SGSN-Initiated BSS Packet Flow Context Modification Procedure.....	293
12.6.3.5.3	BSS-Initiated BSS Packet Flow Context Modification Procedure.....	293
12.6.3.5.4	BSS Packet Flow Context Deletion Procedures.....	293
12.7	Iu Interface (Iu mode).....	294
12.7.1	Consistent Sequence Numbering of PDUs on Iu and Gn Interfaces.....	295
12.7.2	RAB Release Procedure.....	295
12.7.2.1	RAB Release Procedure using Gn/Gp.....	295
12.7.2.2	RAB Release Procedure using S4.....	295
12.7.3	Iu Release Procedure.....	296
12.7.3.1	Iu Release Procedure Using Gn/Gp.....	296
12.7.3.2	Iu Release Procedure Using S4.....	297
12.7.4	RAB Assignment Procedure.....	298
12.7.4.1	RAB Assignment Procedure Using Gn/Gp.....	298
12.7.4.2	RAB Assignment Procedure Using S4.....	299
12.7.5	Location Reporting Procedure.....	299
12.8	Abis Interface (A/Gb mode).....	300
12.8.1	Remote Packet Control Unit.....	301
12.9	Gn Interface (A/Gb mode).....	302
13	Information Storage.....	302
13.1	HLR/HSS.....	302
13.2	SGSN.....	306
13.2.1	General.....	306
13.2.2	Parameter exchange between S4-SGSNs.....	306
13.2.3	Context fields for one MS.....	307
13.2.4	SGSN Emergency Configuration Data for Iu Mode.....	313
13.3	GGSN.....	314
13.3a	Serving GW.....	316
13.3b	PDN GW.....	316
13.4	MS.....	316
13.5	MSC/VLR.....	319
13.6	BSS in A/Gb mode.....	319
13.7	RNC/BSC for Iu mode.....	320
13.8	Direct Tunnel specific error handling.....	320
13.9	Void.....	321
13.10	CSS.....	321
14	Identities.....	321
14.1	IMSI.....	321
14.2	Packet TMSI.....	321
14.2A	GUTI.....	321
14.3	NSAPI and TLLI for A/Gb mode.....	321
14.4	NSAPI, RB Identity, and RAB ID for Iu mode.....	322
14.4A	EPS Bearer Identity.....	323
14.5	PDP Address.....	323
14.6	TEID.....	323
14.7	Routeing Area Identity.....	324
14.8	RAN Registration Area Identity (Iu mode).....	324
14.9	Cell Identity.....	324

14.10	Service Area Identity (Iu mode)	324
14.11	CN Node Addresses	325
14.11.1	CN Node Address	325
14.11.2	GSN Number	325
14.12	RNC/BSC Addresses (Iu mode)	325
14.12.1	RNC/BSC Address	325
14.12.2	RNC/BSC Number	325
14.13	Access Point Name	325
14.14	Closed Subscriber Group ID	325
15	Operational Aspects	326
15.1	Charging	326
15.1.0	General	326
15.1.1	Charging Information	326
15.1.1a	General impacts of applying Flow Based Charging	327
15.1.2	Reverse Charging	328
15.1.3	Location and CSG dependent charging	328
15.1.3.1	Basic principles	328
15.1.3.2	Interaction with CGI / SAI / user CSG information reporting	330
15.1.3.2a	Interaction with CGI / SAI / user CSG information reporting using S4	331
15.1.3.3	Reporting of Presence Reporting Area entering and leaving	332
15.2	Quality of Service Profile	332
15.2.0	General	332
15.2.1	Radio Priority Levels (A/Gb mode)	333
15.2.1a	APN-AMBR	333
15.2.2	UE-AMBR	333
15.2.3	Support of rate control of user data using CIoT optimisation	334
15.2.3.1	General	334
15.2.3.2	APN Rate Control	334
15.3	Traffic Flow Template	334
15.3.0	General	334
15.3.1	Rules for Operations on TFTs	335
15.3.2	Packet Filter Attributes	336
15.3.2.0	General	336
15.3.2.1	Remote Address and Subnet Mask	337
15.3.2.2	Protocol Number / Next Header	337
15.3.2.2A	Local Address and Mask	337
15.3.2.3	Port Numbers	337
15.3.2.4	IPSec Security Parameter Index	337
15.3.2.5	Type of Service / Traffic Class and Mask	337
15.3.2.6	Flow Label	337
15.3.3	Example Usage of Packet Filters	337
15.3.3.0	General	337
15.3.3.1	IPv4 Multi-field Classification	337
15.3.3.2	IPv4 TOS-based Classification	338
15.3.3.3	IPv4 Multi-field Classification for IPSec Traffic	338
15.3.3.4	Services with IP flows in only one direction	338
15.4	APN Restriction	338
15.5	Automatic Device Detection	339
15.6	Direct Tunnel Functionality	340
15.7	HPLMN Notification with specific indication due to SGSN initiated Bearer removal	341
16	Interactions with Other Services	341
16.0	General	341
16.1	Point-to-point Short Message Service	341
16.1.1	Mobile-terminated SMS Transfer	342
16.1.1.1	Unsuccessful Mobile-terminated SMS Transfer	343
16.1.2	Mobile-originated SMS Transfer	345
16.2	Circuit-switched Services (A/Gb mode)	345
16.2.1	Suspension of GPRS Services	345
16.2.1.1	Suspend and Resume procedure (A/Gb mode)	346
16.2.1.1.1	Intra-SGSN Suspend and Resume procedure	346

16.2.1.1.2	Inter-SGSN Suspend and Resume procedure	347
16.2.1.2	Inter-System Suspend and Resume procedure	348
16.2.1.2.1	Intra-SGSN Suspend and Resume procedure	348
16.2.1.2.2	Inter-SGSN Suspend and Resume procedure	349
16.2.1.3	Inter System Resume procedure.....	350
16.2.1.3.1	Intra-SGSN Resume procedure	350
16.2.1.3.2	Inter-SGSN Resume procedure	350
16.2.2	GPRS and Dedicated Mode Priority Handling	350
16.3	Supplementary Services	351
16.4	CAMEL Services	351
Annex A (normative):	APN and P-GW/GGSN Selection	352
A.0	General	352
A.1	Definitions.....	352
A.2	Selection Rules.....	353
Annex B (informative):	Selected IP Traffic Offload at Iu-PS	363
B.1	SIPTO with Traffic Offload Function	363
B.2	Support for SIPTO at Iu-ps	364
Annex C (informative):	Link MTU considerations	365
Annex D (informative):	Change History	367
History		372

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

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- x the first digit:
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- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
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1 Scope

The present document defines the stage-2 service description for the General Packet Radio Service (GPRS) which is a packet bearer service and a main part of the packet domain. ITU-T Recommendation I.130 [29] describes a three-stage method for characterisation of telecommunication services, and ITU-T Recommendation Q.65 [31] defines stage 2 of the method. The GPRS described in the present document is also the description of the GERAN and UTRAN related functionality of the Evolved Packet System (EPS) according to TS 23.401 [89].

The present document does not cover the Radio Access Network functionality. TS 43.064 [11] contains an overall description of the GSM EDGE Radio Access Network (GERAN). TS 25.401 [53] contains an overall description of the Universal Terrestrial Radio Access Network (UTRAN). TS 43.051 [74] contains an overall description of GSM/EDGE Radio Access Network.

The present document does not cover the functionality of the GPRS enhancements for the Evolved Universal Terrestrial Radio Access Network (E-UTRAN). This functionality and also the interoperation functionality between E-UTRAN and GERAN/UTRAN accesses are described in TS 23.401 [89].

The present document specifies functions, procedures and information which apply to GERAN Iu mode. However, functionality related to GERAN Iu mode is neither maintained nor enhanced since Rel-9.

2 References

The following documents contain provisions, which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. For a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] Void.
- [2] 3GPP TS 41.061: "General Packet Radio Service (GPRS); GPRS ciphering algorithm requirements".
- [3] 3GPP TS 22.060: "General Packet Radio Service (GPRS); Service description; Stage 1".
- [4] 3GPP TS 23.003: "Numbering, addressing and identification".
- [5] 3GPP TS 23.007: "Restoration procedures".
- [5b] 3GPP TS 23.016: "Subscriber data management; Stage 2".
- [6] 3GPP TS 43.020: "Security related network functions".
- [7] GSM 03.22: "Digital cellular telecommunications system (Phase 2+); Functions related to Mobile Station (MS) in idle mode and group receive mode".
- [7b] 3GPP TS 23.122: "Non-Access Stratum functions related to Mobile Station (MS) in idle mode".
- [8] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".
- [8b] 3GPP TS 23.078: "Customised Applications for Mobile network Enhanced Logic (CAMEL) Phase 3 - Stage 2".
- [9] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [10] Void.