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Technical Specification

**Digital cellular telecommunications system (Phase 2+);
General Packet Radio Service (GPRS);
GPRS Charging
(3GPP TS 12.15 version 7.7.0 Release 1998)**

GSM®
GLOBAL SYSTEM FOR
MOBILE COMMUNICATIONS

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Contents

Intellectual Property Rights	2
Foreword.....	2
Foreword.....	6
1 Scope	7
2 References	7
3 Definitions abbreviations and symbols	9
3.1 Definitions	9
3.2 Abbreviations	9
3.3 Symbols.....	10
4 Architecture.....	11
4.1 Charging Gateway Functionality.....	12
5 Charging Principles	14
5.1 Requirements.....	14
5.2 Charging Information	14
5.3 Charging Data Collection Principles	15
5.4 Generation of Charging ID.....	16
5.5 Charging for SMS in GPRS	16
5.6 Charging for Anonymous Access.....	16
5.7 Charging Triggers - CDR Generation	17
5.7.1 Triggers for S-CDR Charging Information Collection	17
5.7.1.1 Triggers for S-CDR Charging Information Addition.....	17
5.7.1.2 Triggers for S-CDR Closure	17
5.7.2 Triggers for M-CDR Charging Information Collection.....	17
5.7.2.1 Triggers for M-CDR Charging Information Addition.....	18
5.7.2.2 Triggers for M-CDR Closure	18
5.7.3 Triggers for G-CDR Charging Information Collection.....	18
5.8 Example charging scenarios	19
5.8.1 GPRS Mobile to PDN Context	19
5.8.2 GPRS Mobile to Mobile Context.....	19
5.8.3 PDN to GPRS Mobile Context	20
5.8.4 GPRS Mobile to PDN Context while roaming, GGSN in HPLMN	21
6 Charging Data Collection.....	22
6.1 Record contents	22
6.1.1 GPRS charging data in SGSN (S-CDR)	23
6.1.2 GPRS charging data in GGSN (G-CDR).....	24
6.1.3 GPRS mobile station mobility management data in SGSN (M-CDR)	25
6.1.4 GPRS MO SMS data in SGSN (S-SMO-CDR).....	25
6.1.5 GPRS MT SMS data in SGSN (S-SMT-CDR).....	26
6.1.6 Description of Record Fields	26
6.1.6.1 Access Point Name	26
6.1.6.2 Cause for Record Closing	26
6.1.6.3 Charging ID.....	26
6.1.6.4 Diagnostics.....	27
6.1.6.5 Duration	27
6.1.6.6 Dynamic Address Flag.....	27
6.1.6.7 Event Time Stamps	27
6.1.6.8 GGSN Address/GGSN Address Used.....	27
6.1.6.9 List of Traffic Data Volumes	27
6.1.6.10 Local Record Sequence Number.....	28
6.1.6.11 Message reference.....	28
6.1.6.12 MS Network Capability	29
6.1.6.13 Network Initiated PDP Context.....	29

6.1.6.14	Node ID.....	29
6.1.6.15	PDP Type.....	29
6.1.6.16	QoS Requested/QoS Negotiated.....	29
6.1.6.17	Record Extensions.....	29
6.1.6.18	Record Opening Time.....	29
6.1.6.19	Record Sequence Number.....	29
6.1.6.20	Record Type.....	29
6.1.6.21	Recording Entity Number.....	29
6.1.6.22	Remote PDP Address.....	30
6.1.6.23	Routing Area Code/Cell Identity/Change of location.....	30
6.1.6.24	Served IMEI.....	30
6.1.6.25	Served IMSI.....	30
6.1.6.26	Served MSISDN.....	30
6.1.6.27	Served PDP Address.....	30
6.1.6.28	Service Centre Address.....	30
6.1.6.29	SGSN Address.....	30
6.1.6.30	SGSN Change.....	31
6.1.6.31	SGSN PLMN Identifier.....	31
6.1.6.32	Short Message Service Result.....	31
6.1.6.33	APN Selection Mode.....	31
7	Charging Protocols.....	31
7.1	GPRS CDR Collection by GTP' Protocol.....	31
7.1.1	SGSN - CGF communication.....	32
7.1.2	GGSN - CGF communication.....	32
7.1.3	CGF - CGF communication.....	33
7.1.4	Port usage.....	33
7.1.4.1	UDP as the Path Protocol.....	33
7.1.4.2	TCP as Path Protocol.....	33
7.1.4.3	Network layer and lower layers.....	33
7.1.5	Charging related requirements for GPRS nodes.....	34
7.2	The GTP' charging protocol.....	34
7.2.1	Usage of GTP Header in charging.....	34
7.2.2	Information elements.....	34
7.3	GTP' Message Types.....	35
7.3.1	List of all GTP' message types.....	35
7.3.2	Reused GTP message types.....	37
7.3.3	GTP message type modifications implied by GTP'.....	38
7.3.4	GTP' message types.....	38
7.3.4.1	Node Alive Request.....	38
7.3.4.2	Node Alive Response.....	38
7.3.4.3	Redirection Request.....	39
7.3.4.4	Redirection Response.....	40
7.3.4.5	Data Record Transfer Request.....	40
7.3.4.5.1	General logic.....	40
7.3.4.5.2	Information Elements in Data Record Transfer Request.....	43
7.3.4.5.3	Packet Transfer Command IE.....	43
7.3.4.5.4	Data Record Packet IE.....	44
7.3.4.5.5	Sequence Numbers of Released Packets IE.....	44
7.3.4.5.6	Sequence Numbers of Cancelled Packets IE.....	44
7.3.4.5.7	Private Extension IE.....	45
7.3.4.6	Data Record Transfer Response.....	45
7.3.4.7	Examples of GTP' messaging cases.....	46
7.3.4.7.1	Case 1: The normal CDR packet transfer.....	47
7.3.4.7.2	Case 2: The GSN-CGF1 connection breaks before a successful CDR reception.....	47
7.3.4.7.3	Case 3: The GSN-CGF1 connection breaks after a successful CDR reception.....	50
7.4	Data Record Formats used in GTP'.....	51
7.4.1	ASN.1 format.....	51
7.4.2	Other formats.....	51
7.5	CGF - BS Protocol Interface.....	52
7.5.1	The transfer protocols at CGF - BS interface.....	52
7.5.2	The format of the CDRs at CGF - BS interface.....	52

8 Charging Data Record Structure52

8.1 ASN.1 definitions for CDR information52

Annex A (informative): Change history59

History60

Foreword

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

The present document describes the functionality of charging in GPRS needed to support the first phase of GPRS within the digital cellular telecommunications system.

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1 Scope

The GSM PLMN supports a wide range of voice and non-voice services in the same network. In order to enable operators the ability to provide a commercially viable service there is a need to provide charging functions. The present document describes the functionality of charging in GPRS needed to support the first phase of GPRS, as defined in GSM 02.60 [3] and GSM 03.60 [8] (packet based services).

2 References

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

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- [1] GSM 01.04: "Digital cellular telecommunications system (Phase 2+); Abbreviations and acronyms".
- [2] GSM 01.61: "Digital cellular telecommunications system (Phase 2+); GPRS ciphering algorithm requirements".
- [3] GSM 02.60: "Digital cellular telecommunications system (Phase 2+); General Packet Radio Service (GPRS); Service description; Stage 1".
- [4] GSM 03.03: "Digital cellular telecommunications system (Phase 2+); Numbering, addressing and identification".
- [5] GSM 03.07: "Digital cellular telecommunications system (Phase 2+); Restoration procedures".
- [6] GSM 03.22: "Digital cellular telecommunications system (Phase 2+); Functions related to Mobile Station (MS) in idle mode and group receive mode".
- [7] GSM 03.40: "Digital cellular telecommunications system (Phase 2+); Technical realization of the Short Message Service (SMS); Point-to-Point (PP)".
- [8] GSM 03.60: "Digital cellular telecommunications system (Phase 2+); General Packet Radio Service (GPRS); Service description; Stage 2".
- [9] GSM 03.61: "Digital cellular telecommunications system (Phase 2+); General Packet Radio Service (GPRS); Point to Multipoint Multicast Service Description; Stage 2".
- [10] GSM 03.62: "Digital cellular telecommunications system (Phase 2+); General Packet Radio Service (GPRS); Point to Multipoint Group Call Service Description; Stage 2".
- [11] GSM 03.64: "Digital cellular telecommunications system (Phase 2+); Overall description of the General Packet Radio Service (GPRS) Radio interface; Stage 2".
- [12] GSM 04.07: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface signalling layer 3; General aspects".
- [13] GSM 04.08: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification".
- [14] GSM 04.64: "Digital cellular telecommunications system (Phase 2+); General Packet Radio Service (GPRS); Logical Link Control (LLC)".