



**Universal Mobile Telecommunications System (UMTS);
LTE;
Diameter based protocols to support
Short Message Service (SMS)
capable Mobile Management Entities (MMEs)
(3GPP TS 29.338 version 13.3.0 Release 13)**



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Contents

Intellectual Property Rights	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	6
1 Scope	7
2 References	7
3 Definitions, symbols and abbreviations	8
3.1 Definitions	8
3.2 Abbreviations	8
4 General	8
4.1 Introduction	8
4.2 Use of Diameter Base protocol.....	8
4.3 Securing Diameter messages	8
4.4 Accounting functionality	9
4.5 Use of sessions	9
4.6 Transport protocol	9
4.7 Advertising application support	9
4.8 Diameter Application Identifier	9
4.9 Use of the Supported-Features AVP	10
5 Diameter based S6c interface between HSS and central SMS functions	10
5.1 Introduction	10
5.2 Procedures description	10
5.2.1 Send Routing Info for SM procedure.....	10
5.2.1.1 General	10
5.2.1.2 Detailed behaviour of the SMS-GMSC.....	13
5.2.1.3 Detailed behaviour of the HSS	13
5.2.1.4 Detailed behaviour of the SMS Router	14
5.2.2 Alert Service Centre procedure.....	14
5.2.2.1 General	14
5.2.2.2 Detailed behaviour of the HSS	15
5.2.2.3 Detailed behaviour of the SMS-IWMSC	16
5.2.3 Report SM Delivery Status procedure	16
5.2.3.1 General	16
5.2.3.2 Detailed behaviour of the SMS-GMSC.....	17
5.2.3.3 Detailed behaviour of IP-SM-GW	18
5.2.3.4 Detailed behaviour of the HSS	18
5.3 Protocol specification	18
5.3.1 Routing considerations	18
5.3.1.1 Requests from the SMS-GMSC or the SMS router.....	18
5.3.1.1.1 Introduction	18
5.3.1.1.2 Routing from the originating PLMN	19
5.3.1.1.3 Routing in the HPLMN	19
5.3.1.2 Requests from the HSS	20
5.3.2 Commands	20
5.3.2.1 Introduction.....	20
5.3.2.2 Command-Code values	20
5.3.2.3 Send-Routing-Info-for-SM-Request (SRR) Command.....	21
5.3.2.4 Send-Routing-info-for-SM-Answer (SRA) Command	21
5.3.2.5 Alert-Service-Centre-Request (ALR) Command	22
5.3.2.6 Alert-Service-Centre-Answer (ALA) Command	22
5.3.2.7 Report-SM-Delivery-Status-Request (RDR) Command	22
5.3.2.8 Report-SM-Delivery-Status-Answer (RDA) Command	23

5.3.3	AVPs.....	23
5.3.3.1	General	23
5.3.3.2	SM-RP-MTI	25
5.3.3.3	SM-RP-SMEA	25
5.3.3.4	SRR-Flags	25
5.3.3.5	SM-Delivery-Not-Intended	26
5.3.3.6	Serving-Node	26
5.3.3.7	Additional-Serving-Node	27
5.3.3.8	MWD-Status	27
5.3.3.9	MME-Absent-User-Diagnostic-SM	28
5.3.3.10	MSC-Absent-User-Diagnostic-SM	28
5.3.3.11	SGSN-Absent-Subscriber-Diagnostic-SM	28
5.3.3.12	Feature-List-ID AVP	28
5.3.3.13	Feature-List AVP	28
5.3.3.14	SM-Delivery-Outcome	28
5.3.3.15	MME-SM-Delivery-Outcome	28
5.3.3.16	MSC-SM-Delivery-Outcome	28
5.3.3.17	SGSN-SM-Delivery-Outcome	29
5.3.3.18	IP-SM-GW-SM-Delivery-Outcome	29
5.3.3.19	SM-Delivery-Cause	29
5.3.3.20	Absent-User-Diagnostic-SM	29
5.3.3.21	RDR-Flags	29
5.3.3.22	Maximum-UE-Availability-Time	30
5.3.3.23	SMS-GMSC-Alert-Event	30
5.3.3.24	DRMP	30
5.4	User identity to HSS resolution	30
6	Diameter based SGd/Gdd interfaces between MME/SGSN and central SMS functions	31
6.1	Introduction	31
6.2	Procedures description	31
6.2.1	MO Forward Short Message procedure	31
6.2.1.1	General	31
6.2.1.2	Detailed behaviour of the MME, the SGSN and the IP-SM-GW	33
6.2.1.3	Detailed behaviour of the SMS-IWMSC	33
6.2.2	MT Forward Short Message procedure	33
6.2.2.1	General	33
6.2.2.2	Detailed behaviour of the MME and the SGSN	35
6.2.2.3	Detailed behaviour of the SMS-GMSC	36
6.2.3	Alert Service Centre procedure	37
6.2.3.1	General	37
6.2.3.2	Detailed behaviour of the MME and the SGSN	38
6.2.3.3	Detailed behaviour of the SMS-GMSC	39
6.2.3.4	Detailed behaviour of the SMS-Router	39
6.3	Protocol specification	39
6.3.1	Routing considerations	39
6.3.1.1	Routing for MO Forward SM messages:	39
6.3.1.2	Routing for MT Forward SM messages:	40
6.3.2	Commands	40
6.3.2.1	Introduction	40
6.3.2.2	Command-Code values	40
6.3.2.3	MO-Forward-Short-Message-Request (OFR) Command	41
6.3.2.4	MO-Forward-Short-Message-Answer (OFA) Command	41
6.3.2.5	MT-Forward-Short-Message-Request (TFR) Command	41
6.3.2.6	MT-Forward-Short-Message-Answer (TFA) Command	42
6.3.3	AVPs	42
6.3.3.1	General	42
6.3.3.2	SC-Address	44
6.3.3.3	SM-RP-UI	44
6.3.3.4	TFR-Flags	44
6.3.3.5	SM-Delivery-Failure-Cause	44
6.3.3.6	SM-Enumerated-Delivery-Failure-Cause	45
6.3.3.7	SM-Diagnostic-Info	45

6.3.3.8	Feature-List-ID AVP	45
6.3.3.9	Feature-List AVP	45
6.3.3.10	SM-Delivery-Timer	45
6.3.3.11	SM-Delivery-Start-Time	45
6.3.3.12	OFR-Flags	45
6.3.3.13	SMSMI-Correlation-ID	46
6.3.3.14	HSS-ID	46
6.3.3.15	Originating-SIP-URI	46
6.3.3.16	Destination-SIP-URI	46
6.3.3.17	Maximum-Retransmission-Time	46
6.3.3.18	Requested-Retransmission-Time	46
6.3.3.19	SMS-GMSC-Address	46
6.3.3.20	DRMP	47
7	Result Codes and Experimental-Result values	47
7.1	General	47
7.2	Success	47
7.3	Permanent Failures	47
7.3.1	General	47
7.3.2	DIAMETER_ERROR_USER_UNKNOWN (5001)	47
7.3.3	DIAMETER_ERROR_ABSENT_USER (5550)	47
7.3.4	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS (5551)	47
7.3.5	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED (5552)	47
7.3.6	DIAMETER_ERROR_ILLEGAL_USER (5553)	48
7.3.7	DIAMETER_ERROR_ILLEGAL_EQUIPMENT (5554)	48
7.3.8	DIAMETER_ERROR_SM_DELIVERY_FAILURE (5555)	48
7.3.9	DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED (5556)	48
7.3.10	DIAMETER_ERROR_SERVICE_BARRED (5557)	48
7.3.11	DIAMETER_ERROR_MWD_LIST_FULL (5558)	48
7.4	Transient Failures	48
7.4.1	General	48
Annex A (normative):	Diameter message priority mechanism	49
A.1	General	49
A.2	S6c, SGd, Gdd interfaces	49
Annex B (informative):	Change history	50
History		51

Foreword

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1 Scope

The present document defines the Diameter-based interfaces specific to SMS when they are used in conjunction with the "SMS in MME" architecture specified in 3GPP TS 23.272 [2] or for SGSN supporting EPS interfaces. It comprises:

- the Diameter application for the S6c interface between the HSS and the central SMS functions (SMS-GMSC, SMS Router) ;
- the Diameter application
 - for the SGd interface between the MME, the SMS-IW MSC, the SMS-GMSC and the SMS Router.
 - for the Gdd interface between the SGSN, the SMS-IW MSC, the SMS-GMSC and the SMS Router.

2 References

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- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 23.272: "Circuit Switched (CS) fallback in Evolved Packet System (EPS); Stage 2".
- [3] 3GPP TS 23.040: "Technical realization of the Short Message Service (SMS)".
- [4] 3GPP TS 29.272: "Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol".
- [5] 3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter protocol; Protocol details".
- [6] IETF RFC 2234: "Augmented BNF for Syntax Specifications: ABNF".
- [7] IETF RFC 3588: "Diameter Base Protocol".
- [8] IETF RFC 5516: "Diameter Command Code Registration for the Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)".
- [9] 3GPP TS 29.002: "Mobile Application Part (MAP) specification".
- [10] 3GPP TS 29.173: "Location Services (LCS); Diameter-based SLh interface for Control Plane LCS".
- [11] 3GPP TS 33.210: "3G security; Network Domain Security (NDS); IP network layer security".
- [12] IETF RFC 4960: "Stream Control Transport Protocol".
- [13] ITU-T Recommendation E.164: "The international public telecommunication numbering plan".
- [14] 3GPP TS 29.329: "Sh Interface based on the Diameter protocol; Protocol details".
- [15] 3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications".
- [16] 3GPP TS 23.003: "Numbering, addressing and identification".