



**Universal Mobile Telecommunications System (UMTS);
LTE;
Evolved Packet System (EPS);
Mobility Management Entity (MME)
and Serving GPRS Support Node (SGSN)
related interfaces based on Diameter protocol
(3GPP TS 29.272 version 14.5.0 Release 14)**



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Contents

Intellectual Property Rights	2
Foreword.....	2
Modal verbs terminology.....	2
Foreword.....	10
1 Scope	11
2 References	11
3 Definitions and abbreviations.....	13
3.1 Definitions	13
3.2 Abbreviations	14
4 General Description.....	14
5 MME – HSS (S6a) and SGSN – HSS (S6d)	14
5.1 Introduction	14
5.2 Mobility Services	15
5.2.1 Location Management Procedures.....	15
5.2.1.1 Update Location.....	15
5.2.1.1.1 General	15
5.2.1.1.2 Detailed behaviour of the MME and the SGSN	19
5.2.1.1.3 Detailed behaviour of the HSS	23
5.2.1.2 Cancel Location	26
5.2.1.2.1 General	26
5.2.1.2.2 Detailed behaviour of the MME and the SGSN	27
5.2.1.2.3 Detailed behaviour of the HSS	27
5.2.1.3 Purge UE.....	28
5.2.1.3.1 General	28
5.2.1.3.2 Detailed behaviour of the MME and the SGSN	29
5.2.1.3.3 Detailed behaviour of HSS	29
5.2.2 Subscriber Data Handling Procedures	30
5.2.2.1 Insert Subscriber Data	30
5.2.2.1.1 General	30
5.2.2.1.2 Detailed behaviour of the MME and the SGSN	32
5.2.2.1.3 Detailed behaviour of HSS	36
5.2.2.2 Delete Subscriber Data.....	38
5.2.2.2.1 General	38
5.2.2.2.2 Detailed behaviour of the MME and the SGSN	39
5.2.2.2.3 Detailed behaviour of the HSS	40
5.2.3 Authentication Procedures	40
5.2.3.1 Authentication Information Retrieval	40
5.2.3.1.1 General	40
5.2.3.1.2 Detailed behaviour of the MME and the SGSN	42
5.2.3.1.3 Detailed behaviour of the HSS	42
5.2.4 Fault Recovery Procedures	44
5.2.4.1 Reset.....	44
5.2.4.1.1 General	44
5.2.4.1.2 Detailed behaviour of the MME and the SGSN	45
5.2.4.1.3 Detailed behaviour of the HSS	46
5.2.5 Notification Procedures	47
5.2.5.1 Notification	47
5.2.5.1.1 General	47
5.2.5.1.2 Detailed behaviour of the MME and the SGSN	51
5.2.5.1.3 Detailed behaviour of the HSS	51
5A MME – CSS (S7a) and SGSN – CSS (S7d).....	52
5A.1 Introduction	52

5A.2	Mobility Services	53
5A.2.1	Location Management Procedures.....	53
5A.2.1.1	Update VCSG Location	53
5A.2.1.1.1	General	53
5A.2.1.1.2	Detailed behaviour of the MME and the SGSN	54
5A.2.1.1.3	Detailed behaviour of the CSS	55
5A.2.1.2	Cancel VCSG Location.....	55
5A.2.1.2.1	General	55
5A.2.1.2.2	Detailed behaviour of the MME and the SGSN	56
5A.2.1.2.3	Detailed behaviour of the CSS	56
5A.2.2	Subscriber Data Handling Procedures	56
5A.2.2.1	Insert VCSG Subscriber Data	56
5A.2.2.1.1	General	56
5A.2.2.1.2	Detailed behaviour of the MME and the SGSN	57
5A.2.2.1.3	Detailed behaviour of CSS	57
5A.2.2.2	Delete VCSG Subscriber Data	58
5A.2.2.2.1	General	58
5A.2.2.2.2	Detailed behaviour of the MME and the SGSN	58
5A.2.2.2.3	Detailed behaviour of the CSS	59
5A.2.3	Fault Recovery Procedures	59
5A.2.3.1	VCSG Reset	59
5A.2.3.1.1	General	59
5A.2.3.1.2	Detailed behaviour of the MME and the SGSN	59
5A.2.3.1.3	Detailed behaviour of the CSS	60
6	MME – EIR (S13) and SGSN – EIR (S13')	61
6.1	Introduction	61
6.2	ME Identity Check Procedures.....	61
6.2.1	ME Identity Check.....	61
6.2.1.1	General.....	61
6.2.1.2	Detailed behaviour of the MME and the SGSN	62
6.2.1.3	Detailed behaviour of the EIR.....	62
7	Protocol Specification and Implementation	63
7.1	Introduction	63
7.1.1	Use of Diameter base protocol.....	63
7.1.2	Securing Diameter Messages	63
7.1.3	Accounting functionality	63
7.1.4	Use of sessions.....	63
7.1.5	Transport protocol	63
7.1.6	Routing considerations	64
7.1.7	Advertising Application Support	64
7.1.8	Diameter Application Identifier	64
7.1.9	Use of the Supported-Features AVP	65
7.2	Commands.....	66
7.2.1	Introduction.....	66
7.2.2	Command-Code values	66
7.2.3	Update-Location-Request (ULR) Command	67
7.2.4	Update-Location-Answer (ULA) Command	68
7.2.5	Authentication-Information-Request (AIR) Command	68
7.2.6	Authentication-Information-Answer (AIA) Command	69
7.2.7	Cancel-Location-Request (CLR) Command	69
7.2.8	Cancel-Location-Answer (CLA) Command	69
7.2.9	Insert-Subscriber-Data-Request (IDR) Command	70
7.2.10	Insert-Subscriber-Data-Answer (IDA) Command	70
7.2.11	Delete-Subscriber-Data-Request (DSR) Command	71
7.2.12	Delete-Subscriber-Data-Answer (DSA) Command	72
7.2.13	Purge-UE-Request (PUR) Command	73
7.2.14	Purge-UE-Answer (PUA) Command	73
7.2.15	Reset-Request (RSR) Command	74
7.2.16	Reset-Answer (RSA) Command	74
7.2.17	Notify-Request (NOR) Command	75

7.2.18	Notify-Answer (NOA) Command	75
7.2.19	ME-Identity-Check-Request (ECR) Command	76
7.2.20	ME-Identity-Check-Answer (ECA) Command	76
7.2.21	Update-VCSG-Location-Request (UVR) Command.....	77
7.2.22	Update-VCSG-Location-Answer (UVA) Command.....	77
7.2.23	Cancel-VCSG-Location-Request (CVR) Command	77
7.2.24	Cancel-VCSG-Location-Answer (CVA) Command.....	78
7.3	Information Elements	79
7.3.1	General.....	79
7.3.2	Subscription-Data	88
7.3.3	Terminal-Information	89
7.3.4	IMEI.....	89
7.3.5	Software-Version	89
7.3.6	3GPP2-MEID	89
7.3.7	ULR-Flags	90
7.3.8	ULA-Flags	90
7.3.9	Visited-PLMN-Id.....	91
7.3.10	Feature-List AVP.....	91
7.3.10.1	Feature-List AVP for the S6a/S6d application.....	91
7.3.10.2	Feature-List AVP for the S7a/S7d application.....	104
7.3.11	Requested-EUTRAN-Authentication-Info	104
7.3.12	Requested-UTRAN- GERAN-Authentication-Info.....	105
7.3.13	RAT-Type.....	105
7.3.14	Number-Of-Requested-Vectors	105
7.3.15	Re-Synchronization-Info	105
7.3.16	Immediate-Response-Preferred.....	105
7.3.17	Authentication-Info.....	105
7.3.18	E-UTRAN-Vector.....	106
7.3.19	UTRAN-Vector	106
7.3.20	GERAN-Vector	106
7.3.21	Network-Access-Mode	107
7.3.22	HPLMN-ODB.....	107
7.3.23	Item-Number.....	107
7.3.24	Cancellation-Type.....	107
7.3.25	DSR-Flags.....	108
7.3.26	DSA-Flags	111
7.3.27	Context-Identifier	111
7.3.28	Void	111
7.3.29	Subscriber-Status	111
7.3.30	Operator-Determined-Barring.....	111
7.3.31	Access-Restriction-Data	112
7.3.32	APN-OI-Replacement.....	112
7.3.33	All-APN-Configurations-Included-Indicator.....	112
7.3.34	APN-Configuration-Profile	113
7.3.35	APN-Configuration.....	113
7.3.36	Service-Selection	115
7.3.37	EPS-Subscribed-QoS-Profile	115
7.3.38	VPLMN-Dynamic-Address-Allowed	115
7.3.39	STN-SR	115
7.3.40	Allocation-Retention-Priority	116
7.3.41	AMBR	116
7.3.42	MIP-Home-Agent-Address.....	116
7.3.43	MIP-Home-Agent-Host	116
7.3.44	PDN-GW-Allocation-Type.....	116
7.3.45	MIP6-Agent-Info	117
7.3.46	RAT-Frequency-Selection-Priority-ID	117
7.3.47	IDA-Flags	117
7.3.48	PUA-Flags	117
7.3.49	NOR-Flags.....	118
7.3.50	User-Id	119
7.3.51	Equipment-Status.....	119
7.3.52	Regional-Subscription-Zone-Code	119

7.3.53	RAND	119
7.3.54	XRES	119
7.3.55	AUTN	119
7.3.56	KASME	119
7.3.57	Confidentiality-Key AVP	119
7.3.58	Integrity-Key AVP	119
7.3.59	Kc AVP	119
7.3.60	SRES	120
7.3.61	Void	120
7.3.62	PDN-Type	120
7.3.63	Trace-Data AVP	120
7.3.64	Trace-Reference AVP	121
7.3.65	Void	121
7.3.66	Void	121
7.3.67	Trace-Depth AVP	121
7.3.68	Trace-NE-Type-List AVP	121
7.3.69	Trace-Interface-List AVP	121
7.3.70	Trace-Event-List AVP	121
7.3.71	OMC-Id AVP	121
7.3.72	GPRS-Subscription-Data	121
7.3.73	Complete-Data-List-Included-Indicator	122
7.3.74	PDP-Context	122
7.3.75	PDP-Type	123
7.3.75A	Ext-PDP-Type	123
7.3.76	Void	123
7.3.77	QoS-Subscribed	123
7.3.78	CSG-Subscription-Data	123
7.3.79	CSG-Id	123
7.3.80	Expiration-Date	124
7.3.81	Roaming-Restricted-Due-To-Unsupported-Feature	124
7.3.82	Specific-APN-Info AVP	124
7.3.83	Alert-Reason AVP	124
7.3.84	LCS-Info	124
7.3.85	GMLC-Number	125
7.3.86	LCS-PrivacyException	125
7.3.87	SS-Code	125
7.3.88	SS-Status	125
7.3.89	Notification-To-UE-User	125
7.3.90	External-Client	125
7.3.91	Client-Identity	126
7.3.92	GMLC-Restriction	126
7.3.93	PLMN-Client	126
7.3.94	Service-Type	126
7.3.95	ServiceTypeIdentity	126
7.3.96	MO-LR	126
7.3.97	Void	127
7.3.98	Trace-Collection-Entity AVP	127
7.3.99	Teleservice-List	127
7.3.100	TS-Code	127
7.3.101	Call-Barring-Info	127
7.3.102	SGSN-Number	127
7.3.103	IDR-Flags	127
7.3.104	ICS-Indicator	128
7.3.105	Visited-Network-Identifier	128
7.3.107	Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	129
7.3.108	Last-UE-Activity-Time	129
7.3.109	GMLC-Address	129
7.3.110	EPS-User-State	129
7.3.111	EPS-Location-Information	129
7.3.112	MME-User-State	130
7.3.113	SGSN-User-State	130
7.3.114	User-State	130

7.3.115	MME-Location-Information	131
7.3.116	SGSN-Location-Information	131
7.3.117	E-UTRAN-Cell-Global-Identity	132
7.3.118	Tracking-Area-Identity	132
7.3.119	Cell-Global-Identity.....	132
7.3.120	Routing-Area-Identity.....	132
7.3.121	Location-Area-Identity	132
7.3.122	Service-Area-Identity.....	132
7.3.123	Geographical-Information	132
7.3.124	Geodetic-Information.....	132
7.3.125	Current-Location-Retrieved.....	132
7.3.126	Age-Of-Location-Information	133
7.3.127	Active-APN	133
7.3.128	Error-Diagnostic	133
7.3.129	Ext-PDP-Address AVP	133
7.3.130	UE-SRVCC-Capability.....	134
7.3.131	MPS-Priority.....	134
7.3.132	VPLMN-LIPA-Allowed	134
7.3.133	LIPA-Permission	134
7.3.134	Subscribed-Periodic-RAU-TAU-Timer.....	134
7.3.135	SIPTO-Permission	135
7.3.136	MDT-Configuration.....	135
7.3.137	Job-Type	135
7.3.138	Area-Scope	136
7.3.139	List-Of-Measurements	136
7.3.140	Reporting-Trigger	136
7.3.141	Report-Interval.....	136
7.3.142	Report-Amount	136
7.3.143	Event-Threshold-RSRP	136
7.3.144	Event-Threshold-RSRQ.....	136
7.3.145	Logging-Interval	136
7.3.146	Logging-Duration	136
7.3.147	Relay-Node-Indicator	137
7.3.148	MDT-User-Consent	137
7.3.149	PUR-Flags.....	137
7.3.150	Subscribed-VSRVCC	137
7.3.151	Equivalent-PLMN-List	137
7.3.152	CLR-Flags.....	138
7.3.153	UVR-Flags.....	138
7.3.154	UVA-Flags.....	138
7.3.155	VPLMN-CSG-Subscription-Data	139
7.3.156	Local-Time-Zone	139
7.3.157	A-MSISDN	139
7.3.158	Void	139
7.3.159	MME-Number-for-MT-SMS	139
7.3.160	Void	140
7.3.161	Void	140
7.3.162	SMS-Register-Request	140
7.3.163	Time-Zone	140
7.3.164	Daylight-Saving-Time	140
7.3.165	Subscription-Data-Flags	140
7.3.166	Measurement-Period-LTE	141
7.3.167	Measurement-Period-UMTS.....	141
7.3.168	Collection-Period-RRM-LTE	141
7.3.169	Collection-Period-RRM-UMTS	141
7.3.170	Positioning-Method	141
7.3.171	Measurement-Quantity	141
7.3.172	Event-Threshold-Event-1F	142
7.3.173	Event-Threshold-Event-1I	142
7.3.174	Restoration-Priority	142
7.3.175	SGs-MME-Identity.....	142
7.3.176	SIPTO-Local-Network-Permission.....	142

7.3.177	Coupled-Node-Diameter-ID	142
7.3.178	OC-Supported-Features	142
7.3.179	OC-OLR	142
7.3.180	ProSe-Subscription-Data	142
7.3.181	WLAN-offloadability	143
7.3.182	WLAN-offloadability-EUTRAN	143
7.3.183	WLAN-offloadability-UTRAN	143
7.3.184	Reset-ID	143
7.3.185	MDT-Allowed-PLMN-Id	144
7.3.186	Adjacent-PLMNs	144
7.3.187	Adjacent-Access-Restriction-Data	144
7.3.188	DL-Buffering-Suggested-Packet-Count	144
7.3.189	IMSI-Group-Id	145
7.3.190	Group-Service-Id	145
7.3.191	Group-PLMN-Id	145
7.3.192	Local-Group-Id	145
7.3.193	AESE-Communication-Pattern	146
7.3.194	Communication-Pattern-Set	146
7.3.195	Monitoring-Event-Configuration	146
7.3.196	Monitoring-Event-Report	147
7.3.197	UE-Reachability-Configuration	147
7.3.198	eNodeB-ID	148
7.3.199	Supported-Services	148
7.3.200	Supported-Monitoring-Events	148
7.3.201	AIR-Flags	148
7.3.202	UE-Usage-Type	148
7.3.203	DRMP	149
7.3.204	Non-IP-PDN-Type-Indicator	149
7.3.205	Non-IP-Data-Delivery-Mechanism	149
7.3.206	Additional-Context-Identifier	149
7.3.207	SCEF-Realm	149
7.3.208	Subscription-Data-Deletion	150
7.3.209	Preferred-Data-Mode	150
7.3.210	Emergency-Info	150
7.3.211	Load	150
7.3.212	V2X-Subscription-Data	151
7.3.213	V2X-Permission	151
7.3.214	PDN-Connection-Continuity	151
7.3.215	eDRX-Cycle-Length	151
7.3.216	eDRX-Cycle-Length-Value	152
7.3.217	UE-PC5-AMBR	152
7.3.218	Extended eNodeB-ID	152
7.3.219	MBSFN-Area	152
7.3.220	MBSFN-Area-ID	152
7.3.221	Carrier-Frequency	152
7.3.222	RDS-Indicator	152
7.4	Result-Code and Experimental-Result Values	153
7.4.1	General	153
7.4.2	Success	153
7.4.3	Permanent Failures	153
7.4.3.1	DIAMETER_ERROR_USER_UNKNOWN (5001)	153
7.4.3.2	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION (5420)	153
7.4.3.3	DIAMETER_ERROR_RAT_NOT_ALLOWED (5421)	153
7.4.3.4	DIAMETER_ERROR_ROAMING_NOT_ALLOWED (5004)	153
7.4.3.5	DIAMETER_ERROR_EQUIPMENT_UNKNOWN (5422)	153
7.4.3.6	DIAMETER_ERROR_UNKOWN_SERVING_NODE (5423)	153
7.4.4	Transient Failures	153
7.4.4.1	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE (4181)	153
7.4.4.2	DIAMETER_ERROR_CAMEL_SUBSCRIPTION_PRESENT (4182)	154
8	User identity to HSS resolution	154

Annex A (normative): MME mapping table for S6a and NAS Cause Code values 155

Annex B(normative):	SGSN mapping table for S6d and NAS Cause Code values.....	158
Annex C (normative):	Diameter overload control mechanism.....	160
C.1	General	160
C.2	S6a/S6d interfaces	160
C.2.1	General.....	160
C.2.2	HSS behaviour	160
C.2.3	MME/SGSN behaviour.....	160
Annex D (Informative):	Diameter overload control node behaviour	161
D.1	Message prioritisation over S6a/d	161
Annex E (normative):	Diameter message priority mechanism.....	162
E.1	General	162
E.2	S6a/S6d interfaces	162
E.2.1	General.....	162
E.2.2	HSS, CSS, EIR behaviour.....	162
E.2.3	MME/SGSN behaviour.....	162
Annex F (normative):	Diameter load control mechanism.....	164
F.1	General	164
F.2	S6a/S6d interfaces	164
F.2.1	General.....	164
F.2.2	HSS behaviour	164
F.2.3	MME/SGSN behaviour.....	164
Annex G (informative): Change history.....		165
History		171

Foreword

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1 Scope

The present document describes the Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related diameter-based interfaces towards the Home Subscriber Server (HSS) or the CSG Subscriber Server (CSS), and the MME and the SGSN related diameter-based interface towards the Equipment Identity Register (EIR).

This specification defines the Diameter application for the MME-HSS, S6a reference point, for the MME-CSS, S7a reference point, for the SGSN-HSS, S6d reference point, and for the SGSN-CSS, S7d reference point. The interactions between the HSS/CSS and the MME/SGSN are specified, including the signalling flows.

This specification defines the Diameter application for the MME-EIR, S13 reference point, and for the SGSN-EIR, S13' reference point. The interactions between the MME/SGSN and the EIR are specified, including the signalling flows.

In this specification, if there is no specific indication, the following principles apply:

- "SGSN" refers to an SGSN which at least supports the S4 interface and may support Gn and Gp interfaces.
- "S4-SGSN" refers to an SGSN which supports the S4 interface and does not support Gn and Gp interfaces.
- Gn/Gp-SGSN refers to an SGSN which supports the Gn and Gp interfaces and does not support S4 interface.
- "GPRS subscription data" refers to the parameters in the HLR column in Table 5.2. in 3GPP TS 23.008 [30].
- "EPS subscription data" refers to the parameters in the HSS column in Table 5.2A-1 in 3GPP TS 23.008 [30].

The Evolved Packet System stage 2 description (architecture and functional solutions) is specified in 3GPP TS 23.401 [2] and in 3GPP TS 23.060 [12].

SGSN CAMEL Subscription Data are not supported over S6d interface.

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. In the case of 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] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 23.401: "GPRS enhancements for E-UTRAN access".
- [3] 3GPP TS 23.003: "Numbering, addressing and identification".
- [4] Void.
- [5] 3GPP TS 33.401: "3GPP System Architecture Evolution: Security Architecture".
- [6] Void".
- [7] IETF RFC 2234: "Augmented BNF for syntax specifications".
- [8] 3GPP TS 32.299: "Charging management; Diameter charging applications".
- [9] 3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter protocol".
- [10] 3GPP TS 29.212: "Policy and Charging Control (PCC); Reference points".