ETSI TS 129 230 V13.6.0 (2016-10)



Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE;

> Diameter applications; 3GPP specific codes and identifiers (3GPP TS 29.230 version 13.6.0 Release 13)



Reference RTS/TSGC-0429230vd60 Keywords GSM,LTE,UMTS

ETSI

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

Important notice

The present document can be downloaded from: http://www.etsi.org/standards-search

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the only prevailing document is the print of the Portable Document Format (PDF) version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status.

Information on the current status of this and other ETSI documents is available at https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx

If you find errors in the present document, please send your comment to one of the following services: https://portal.etsi.org/People/CommiteeSupportStaff.aspx

Copyright Notification

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2016.
All rights reserved.

DECTTM, **PLUGTESTS**TM, **UMTS**TM and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members. **3GPP**TM and **LTE**TM are Trade Marks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

GSM® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Intellectual Property Rights

IPRs essential or potentially essential to the present document may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (https://ipr.etsi.org/).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

Foreword

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

The present document may refer to technical specifications or reports using their 3GPP identities, UMTS identities or GSM identities. These should be interpreted as being references to the corresponding ETSI deliverables.

The cross reference between GSM, UMTS, 3GPP and ETSI identities can be found under http://webapp.etsi.org/key/queryform.asp.

Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the <u>ETSI Drafting Rules</u> (Verbal forms for the expression of provisions).

"must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

Contents

Intell	ectual Property Rights	2
Forev	word	2
Moda	al verbs terminology	2
Forev	word	4
1	Scope	5
2	References	5
3 3.1 3.2	Definitions and abbreviations Definitions Abbreviations	6
4 4.1	Application identifiers	
5 5.1	Command codes	
6 6.1	Vendor identifier	
7 7.1	Attribute-Value-Pair codes 3GPP specific AVP codes	
8 8.1 8.1.1 8.1.2 8.1.3 8.1.4	Experimental result codes 3GPP specific result codes Informational Success Transient Failures Permanent Failures	34 34 34
Anne	ex A (informative): Assignment of the Diameter codes and identifiers in 3GPP	39
A.1	Application identifiers	39
A.2	Command codes	39
A.3	AVP codes	39
A.4	Result codes	39
Anne	ex B (informative): Change history	41
Histo	nrv	46

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:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document lists the 3GPP specific Diameter protocol codes, including the AVP codes and Experimental result codes.

5

This document lists also the application identifiers assigned to 3GPP specific Diameter applications by IANA and the Diameter command code range which is assigned to 3GPP by IANA.

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.

Diameter protocol; Stage 3".

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 TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and message contents".
[2]	3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter protocol; Protocol details".
[3]	3GPP TS 29.328: "IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents".
[4]	3GPP TS 29.329: "Sh Interface based on the Diameter protocol; Protocol details".
[5]	3GPP TS 32.299: "Telecommunication management; Charging management; Diameter charging applications".
[6]	3GPP TS 29.234, Release 11: "3GPP system to Wireless Local Area Network (WLAN) interworking; Stage 3".
[7]	3GPP TS 29.109: "Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Stage 3".
[8]	3GPP TS 29.209, Release 6: "Policy control over Gq interface".
[9]	IETF RFC 3588: "Diameter Base Protocol".
[10]	IETF RFC 3589: "Diameter Command Codes for Third Generation Partnership Project (3GPP) Release 5".
[11]	IANA"s Enterprise-Numbers: http://www.iana.org/assignments/enterprise-numbers
[12]	IANA"s AAA parameters register: ftp://ftp.iana.org/assignments/aaa-parameters/
[13]	3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".
[14]	3GPP TS 32.296: "Telecommunication management; Charging management; Online Charging System (OCS): Applications and interfaces".
[15]	3GPP TS 29.210, Release 6: "Charging rule provisioning over Gx interface".
[16]	3GPP TS 29.140, Release 6: "Multimedia Messaging Service (MMS); MM10 interface based on

[17]	3GPP TS 29.211, Release 6: "Rx Interface and Rx/Gx signalling flows".
[18]	3GPP TS 29.214: "Policy and Charging Control over Rx reference point".
[19]	3GPP TS 29.212: "Policy and Charging Control (PCC); Reference points".
[20]	3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces".
[21]	3GPP TS 29.272: "Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol".
[22]	3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point; Stage 3".
[23]	IETF RFC 5516: "Diameter Command Code Registration for Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)".
[24]	3GPP TS 29.172: "Location Services (LCS); Evolved Packet Core (EPC) LCS Protocol (ELP) between the Gateway Mobile Location Centre (GMLC) and the Mobile Management Entity (MME); SLg interface".
[25]	3GPP TS 29.173: "Location Services (LCS); Diameter-based SLh interface for Control Plane LCS".
[26]	3GPP TS 29.219: "Policy and Charging Control: Spending Limit Reporting over Sy reference point".
[27]	3GPP TS 29.368: "Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS)".
[28]	3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications".
[29]	3GPP TS 29.337: "Diameter-based T4 interface for communications with packet data networks and applications".
[30]	3GPP TS 29.338: "Diameter based protocols to support SMS capable MMEs".
[31]	3GPP TS 29.468: "Group Communication System Enablers for LTE (GCSE_LTE)".
[32]	3GPP TS 29.343: "Proximity-services (ProSe) function to ProSe application server aspects (PC2)".
[33]	3GPP TS 29.344: "Proximity-services (ProSe) Function to Home Subscriber Server (HSS) aspects".
[34]	3GPP TS 29.345: "Inter-Proximity-services (Prose) function signalling aspects; Stage 3".
[35]	3GPP TS 29.217: "Policy and Charging Control over Np reference point".
[36]	3GPP TS 29.128: "Diameter based T6a/T6b interface between the MME/SGSN and the SCEF".
[37]	3GPP TS 29.153: "Service exposure functionality between SCEF and RCAF reference point".
[38]	3GPP TS 29.154: "Service capability exposure functionality over Nt Reference point".
[39]	3GPP TS 29.283: "Diameter Data Management applications".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply.

3GPP specific: A definition which is used in conjunction with the 3GPP"s vendor identifier.

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AVP Attribute-Value-Pair CR Change Request

IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

The Diameter applications are identified with the application identifiers as specified in the RFC 3588 [9]. There are two kind of applications: IETF standards track applications and vendor specific applications. All application identifiers are assigned by IANA [12]. This chapter lists the application identifiers assigned by IANA to all 3GPP Diameter applications.

The application identifiers are transferred in Diameter command"s header in the Application-ID field.

4.1 3GPP specific application identifiers

The 3GPP specific application identifiers allocated by IANA are listed in the following table.

Table 4.1: 3GPP specific application identifiers

Application identifier	Application	3GPP TS
16777216	3GPP Cx/Px	29.228 [1] and 29.229 [2]
16777217	3GPP Sh/Ph	29.328 [3] and 29.329 [4]
16777218	3GPP Re	32.296 [14]
16777219	3GPP Wx	29.234 [6]
16777220	3GPP Zn	29.109 [7]
16777221	3GPP Zh	29.109 [7]
16777222	3GPP Gq	29.209 [8]
16777223	3GPP Gmb	29.061 [13]
16777224	3GPP Gx	29.210 [15]
16777225	3GPP Gx over Gy	29.210 [15]
16777226	3GPP MM10	29.140 [16]
16777229	3GPP Rx	29.211 [17]
16777230	3GPP Pr	29.234 [6]
16777236	3GPP Rx	29.214 [18]
16777238	3GPP Gx	29.212 [19]
16777250	3GPP STa	29.273 [20]
16777251	3GPP S6a	29.272 [21]
16777252	3GPP S13/S13"	29.272 [21]
16777255	3GPP SLg	29.172 [24]
16777264	3GPP SWm	29.273 [20]
16777265	3GPP SWx	29.273 [20]
16777266	3GPP Gxx	29.212 [19]
16777267	3GPP S9	29.215 [22]
16777268	3GPP Zpn	29.109 [7]
16777272	3GPP S6b	29.273 [20]
16777291	3GPP SLh	29.173 [25]
16777292	3GPP SGmb	29.061 [13]
16777302	3GPP Sy	29.219 [26]
16777303	3GPP Sd	29.212 [19]
16777308	3GPP S7a	29.272 [21]
16777309	3GPP Tsp	29.368 [27]
16777310	3GPP S6m	29.336 [28]
16777311	3GPP T4	29.337 [29]
16777312	3GPP S6c	29.338 [30]
16777313	3GPP SGd	29.338 [30]
16777318	3GPP S15	29.212 [19]
16777319	3GPP S9a	29.215 [22]
16777320	3GPP S9a*	29.215 [22]
16777335	3GPP MB2-C	29.468 [31]
16777336	3GPP PC4a	29.344 [33]
16777337	3GPP PC2	29.343 [32]
16777340	3GPP PC6/PC7	29.345 [34]
16777342	3GPP Np	29.345 [34]
16777345	3GPP Np	29.336 [28]
16777346	3GPP 36t 3GPP T6a/T6b	29.336 [26]
16777347	3GPP Ns	29.126 [36]
	3GPP Nt	
16777348		29.154[38]
16777349 16777350	3GPP St 3GPP PC2	29.212 [19]
		29.343 [32]
16777351	3GPP Diameter Data Management	29.283 [39]

5 Command codes

The command codes are used for communicating the command associated with the Diameter message. The command code is carried in the Diameter header"s Command-Code field. The command codes can be divided into standard command codes allocated by IANA and experimental command codes for testing purposes only.

5.1 Command codes allocated for 3GPP

Based on the IETF RFC 3589 [10] the IANA has allocated a standard command code range 300 - 313 for 3GPP. The command codes are presented in the following table.

Table 5.1/1: Command code values allocated for 3GPP

Command code value	Command name	Abbreviation	Specified in 3GPP TS
300	User-Authorization-Request/-Answer	UAR/UAA	
301	Server-Assignment-Request/-Answer	SAR/SAA	
302	Location-Info-Request/-Answer	LIR/LIA	
303	Multimedia-Auth-Request/-Answer	MAR/MAA	29.229 [2]
304	Registration-Termination-Request/-	RTR/RTA	
	Answer		
305	Push-Profile-Request/-Answer	PPR/PPA	
306	User-Data-Request/-Answer	UDR/UDA	
307	Profile-Update-Request/-Answer	PUR/PUA	29.329 [4]
308	Subscribe-Notifications-Request/-Answer	SNR/SNA	29.329 [4]
309	Push-Notification-Request/-Answer	PNR/PNA	
310	Boostrapping-Info-Request/Answer	BIR/BIA	29.109 [7]
311	Message-Process-Request/Answer	MPR/MPA	29.140 [16]
312	GBAPush-Info-Request/Answer	GPR/GPI	29.109 [7]

Editor's Note: The following command codes have been allocated to 3GPP, but they have not been used yet.

Table 5.1/2: Command codes allocated for 3GPP

Command code value	Command name	Abbreviation	Specified in 3GPP TS
313			

As defined in the IETF RFC 5516 [23]. IANA has allocated the following command code values for the S6a/S6d interface application and S13/S13" interface application.

Table 5.1/3: SAE related Standard Command code valuess allocated for 3GPP

Command code value	Command name	Abbreviation	Specified in 3GPP TS
316	Update-Location-Request/Answer	ULR/ULA	
317	Cancel-Location-Request/Answer	CLR/CLA	
318	Authentication- Information -	AIR/AIA	
	Request/Answer		
319	Insert Subscriber Data-Request/Answer	IDR/IDA	20 272 [24]
320	Delete-Subscriber-Data-Request/Answer	DSR/DSA	29.272 [21]
321	Purge-UE-Request/Answer	PUR/PUA	
322	Reset-Request/Answer	RSR/RSA	
323	Notify-Request/Answer	NOR/NOA	
324	ME-Identity-Check-Request/Answer	ECR/ECA	

Besides the standard command code values allocated for 3GPP, IANA has allocated the following vendor-specific command code values for 3GPP vendor-specific Diameter applications:

Table 5.1/4: Vendor-specific command codes allocated for 3GPP

Command code value	Command name	Abbreviation	Specified in 3GPP TS
8388620	Provide-Location-Request/Answer	PLR/PLA	
8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]
8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]
8388635	Spending-Limit-Request/Answer	SLR/SLA	
8388636	Spending-Status-Notification- Request/Answer	SNR/SNA	29.219 [26]
8388637	TDF-Session-Request/Answer	TSR/TSA	
8388731	TSSF-Notification-Request/Answer	TNR/TNA	29.212 [19]
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]
8388639	Device-Action-Request/Answer	DAR/DAA	
8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]
8388718	Configuration-Information- Request/Answer	CIR/CIA	
8388719	Reporting-Information- Request/Answer	RIR/RIA	29.336 [28]
8388726	NIDD-Information-Request/Answer	NIR/NIA	
8388643	Device-Trigger-Request/Answer	DTR/DTA	
8388644	Delivery-Report-Request/Answer	DRR/DRA	29.337 [29]
8388645	MO-Forward-Short-Message Request/Answer	OFR/OFA	
8388646	MT-Forward-Short-Message Request/Answer	TFR/TFA	
8388647	Send-Routing-Info-for-SM- Request/Answer	SRR/SRA	29.338 [30]
8388648	Alert-Service-Centre-Request/Answer	ALR/ALA	
8388649	Report-SM-Delivery-Status- Request/Answer	RDR/RDA	
8388656	Trigger-Establishment-Request/Answer	TER/TEA	29.215 [30]
8388662	GCS-Action-Request/Answer	GAR/GAA	
8388663	GCS-Notification-Request/Answer	GNR/GNA	29.468 [31]
8388664	ProSe-Subscriber-Information- Request/Answer	PIR/PIA	
8388665	Update-ProSe-Subscriber-Data- Request/Answer	UPR/UPA	
8388666	ProSe-Notify-Request/Answer	PNR/PNA	29.344 [33]
8388713	ProSe-Initial-Location-Information- Request/Answer	PSR/PSA	
8388668	ProSe-Authorization-Request/Answer	PAR/PAA	
8388669	ProSe-Discovery-Request/Answer	PDR/PDA	29.345 [34]

8388670	ProSe-Match-Request/Answer	PMR/PMA	
8388671	ProSe-Match-Report-Info- Request/Answer	PIR/PIA	-
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	
8388674	ProSe-Alert-Request/Answer	ALR/ALA	-
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	-
8388676	ProXimity-Action-Request/Answer	PXR/PXA	
8388727	ProXimity-Application-Request/Answer	XAR/XAA	29.343 [32]
8388720	Non-Aggregated-RUCI-Report- Request/Answer	NRR/NRA	
8388721	Aggregated-RUCI-Report- Request/Answer	ARR/ARA	29.217 [35]
8388722	Modify-Uecontext-Request/Answer	MUR/MUA	1
8388724	Network-Status-Request/Answer	NSR/NSA	
8388725	Network-Status-Continuous-Report- Request/Answer	NCR/NCA	29.153 [37]
8388723	Background-Data-Transfer- Request/Answer	BTR/BTA	29.154 [38]
8388728	Data-Pull-Request/Answer	DPR/DPA	
8388729	Data-Update-Request/Answer	DUR/DUA	29.283 [39]
8388730	Notification-Data-Request/Answer	NDR/NDA	1
8388732	Connection-Management- Request/Answer	CMR/CMA	
8388733	MO-Data-Request/Answer	ODR/ODA	29.128 [36]
8388734	MT-Data-Request/Answer	TDR/TDA	•

6 Vendor identifier

The vendor identifier (also known as Enterprise number) indicates the vendor specific attributes, result codes and application identifiers in Diameter commands. The vendor identifier is used in the Vendor-ID field of the AVP header and in the Vendor-Id AVP. The Vendor-Id AVP is used to identify the vendor in the Vendor-Specific-Application-Id and Experimental-Result-Code grouped AVPs.

6.1 3GPP"s vendor identifier

The IANA has allocated a vendor identifier value 10415 for 3GPP [11].

7 Attribute-Value-Pair codes

The AVP codes are used together with the vendor identifier to identify each attribute uniquely. There are multiple AVP namespaces. The IETF IANA namespace, that is, the AVPs with vendor identifier zero or without vendor identifier, is controlled by IANA. Each vendor controls the AVP codes within their AVP namespaces.

7.1 3GPP specific AVP codes

The 3GPP specific AVPs have the Vendor-Specific bit ('V' bit) set in the AVP header and they carry the 3GPP"s vendor identifier in the Vendor-ID field of the AVP header. The 3GPP specific AVP codes are presented in the following table.

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
102	3GPP-WLAN-QoS-Filter-Support	OctetString	
	The AVP codes from 1 to 255 are reserved for backwards compatib	oility with 3GPP RADIUS Ve	endor Specific
Attribu	ites (See TS 29.061 [13] and TS 29.234 [6])	•	•
Note:	The AVP codes from 256 to 299 are reserved for future use.		
300	Authentication-Method	Enumerated	
301	Authentication-Information-SIM	OctetString	
302	Authorization -Information-SIM	OctetString	
303	WLAN-User-Data	Grouped	
304	Charging-Data	Grouped	
305	WLAN-Access	Enumerated	
306	WLAN- 3GPP-IP-Access	Enumerated	
307	APN-Authorized	Grouped	
308	APN-Id		
309	APN-Barring-Type	Enumerated	20 224 [6]
310	WLAN-Direct-IP-Access	Enumerated	29.234 [6]
311	Session-Request-Type	Enumerated	
312	Routing-Policy	IPFilterRule	
313	Max-Requested-Bandwidth	OctetString	
314	Charging-Characteristics	Integer	
	Charging-Nodes	Grouped	
316	Primary-OCS-Charging-Function-Name	DiameterIdentity	
317	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
	3GPP-AAA-Server-Name	DiameterIdentity	
319	Maximum-Number-Accesses	Unsigned32	
	l: The AVP codes from 320 to 399 are reserved for TS 29.234 2: The 3GPP-AAA-Server-Name definition is moved to TS 29.273 s	tarting from Rel-12	
400	GBA-UserSecSettings	OctetString	
	Transaction-Identifier	OctetString	
	NAF-Hostname	OctetString	
	GAA-Service-Identifier	OctetString	
404	Key-ExpiryTime	Time	
405	MÉ-Key-Material UICC-Key-Material	OctetString OctetString	=
	GBA_U-Awareness-Indicator	Enumerated	
	BootstrapInfoCreationTime	Time	
409	GUSS-Timestamp	Time	
	GBA-Type	Enumerated	29.109 [7]
	UE-ld	OctetString	
412	UE-Id-Type	Enumerated	
	UICC-App-Label UICC-ME	OctetString Enumerated	=
414	Requested-Key-Lifetime	Time	
416	Private-Identity-Request	Enumerated	
417	GBA-Push-Info	OctetString	╡
418	NAF-SA-Identifier	OctetString	
	Security-Feature-Request	OctetString	
	Security-Feature-Response	OctetString	
	The AVP codes from 421 to 499 are reserved for TS 29.109		
	Abort-Cause	Enumerated	-
	Access-Network-Charging-Address	Address	-
	Access-Network-Charging-Identifier	Grouped	29.209 [8],
	Access-Network-Charging-Identifier-Value	OctetString	29.211 [17] ,
	AF-Application-Identifier	OctetString	29.214 [18]
	AF-Charging-Identifier	OctetString	-
	Authorization-Token	OctetString	4
507	Flow-Description	IPFilterRule	1

	Flow-Grouping	Grouped	
509	Flow-Number	Unsigned32	
510	Flows	Grouped	
511	Flow-Status	Enumerated	
512	Flow-Usage	Enumerated	
	Specific-Action	Enumerated	
	Max-Requested-Bandwidth	Unsigned32	
	Max-Requested-Bandwidth-DL	Unsigned32	
	Max-Requested-Bandwidth-UL	Unsigned32	
	Media-Component-Description	Grouped	
518	Media-Component-Number	Unsigned32	
519	Media-Sub-Component AVP	Grouped	
	Media-Type	Enumerated	
	RR-Bandwidth	Unsigned32	
	RS-Bandwidth	Unsigned32	
	SIP-Forking-Indication	Enumerated	
	Codec-Data	OctetString	
525	Service-URN	OctetString	
526	Acceptable-Service-Info	Grouped	
	Service-Info-Status	Enumerated	
	MPS-Identifier	OctetString	
	AF-Signalling-Protocol	Enumerated	
	Sponsored-Connectivity-Data	Grouped	
	Sponsor-Identity	OctetString	
	Application-Service-Provider-Identity	OctetString	
533	Rx-Request-Type	Enumerated	
534	Min-Requested-Bandwidth-DL	Unsigned32	
	Min-Requested-Bandwidth-UL	Unsigned32	
	Required-Access-Info	Enumerated	
	IP-Domain-Id		
		OctetString	
	GCS-Identifier	OctetString	
	Sharing-Key-DL	Unsigned32	
540	Sharing-Key-UL	Unsigned32	
541	Retry-Interval	Unsigned32	
	Sponsoring-Action	Enumerated	
	Max-Supported-Bandwidth-DL	Unsigned32	
	Max-Supported-Bandwidth-UL		
		Unsigned32	
	Min-Desired-Bandwidth-DL	Unsigned32	
	Min-Desired-Bandwidth-UL	Unsigned32	
547	MCPTT-Identifier	OctetString	
548	Service-Authorization-Info	Unsigned32	
549	Reserved	-	
	Priority-Sharing-Indicator	Enumerated	
	The AVP codes from 551 to 599 are reserved for TS 29.209, TS 29.2		
	Visited-Network-Identifier	OctetString	
	Public-Identity Public	UTF8String	
	Server-Name	UTF8String	
603	Server-Capabilities	Grouped	
604	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	
	SIP-Authorization	OctetString	29.229 [2]
611	SIP-Authentication-Context	OctetString	
612	SIP-Auth-Data-Item	Grouped	
	SIP-Item-Number	Unsigned32	
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
	Reason-Info	UTF8String	
	Charging-Information	Grouped	
	Primary-Event-Charging-Function-Name	DiameterURI	
	Secondary-Event-Charging-Function-Name	DiameterURI	
	, , , , , , , , , , , , , , , , , , , ,		

	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
	User-Authorization-Type	Enumerated	
	User-Data-Already-Available Confidentiality-Key	Enumerated	
	Integrity-Key	OctetString OctetString	
	User-Data-Request-Type	Enumerated	
	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
	Supported-Applications	Grouped	
	Associated-Identities	Grouped	
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String	
635	SIP-Digest-Authenticate	Grouped	
636	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
	SCSCF-Restoration-Info	Grouped	
640		OctetString	
	Contact	OctetString	
	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	
	Record-Route	OctetString	
	Associated-Registered-Identities	Grouped Enumerated	
	Multiple-Registration-Indication Restoration-Info	Grouped	
	Session-Priority	Enumerated	
	Identity-with-Emergency-Registration	Grouped	
	Priviledged-Sender-Indication	Enumerated	
	LIA-Flags	Unsigned32	
	Initial-CSeq-Sequence-Number	Unsigned32	
	SAR-Flags	Unsigned32	
	Allowed-WAF-WWSF-Identities	Grouped	
657	WebRTC-Authentication-Function-Name	UTF8String	
	WebRTC-Web-Server-Function-Name	UTF8String	
Note:	The AVP codes from 659 to 699 are reserved for TS 29.229.		
700	User-Identity	Grouped	
	MSISDN	OctetString	
	User-Data	OctetString	
703		•	
	Data-Reference	Enumerated	
704	Service-Indication	Enumerated OctetString	
704 705	Service-Indication Subs-Req-Type	Enumerated OctetString Enumerated	
704 705 706	Service-Indication Subs-Req-Type Requested-Domain	Enumerated OctetString Enumerated Enumerated	
704 705 706 707	Service-Indication Subs-Req-Type Requested-Domain Current-Location	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated	
704 705 706 707 708	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Enumerated	
704 705 706 707 708 709	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set Expiry-Time	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Enumerated Time	
704 705 706 707 708 709 710	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set Expiry-Time Send-Data-Indication	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Time Enumerated	29 329 [4]
704 705 706 707 708 709 710 711	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Time Enumerated OctetString	29.329 [4]
704 705 706 707 708 709 710 711 712	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated	29.329 [4]
704 705 706 707 708 709 710 711 712 713	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Time Enumerated OctetString	29.329 [4]
704 705 706 707 708 709 710 711 712 713 714	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated	29.329 [4]
704 705 706 707 708 709 710 711 712 713 714 715	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32	29.329 [4]
704 705 706 707 708 709 710 711 712 713 714 715 716	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped	29.329 [4]
704 705 706 707 708 709 710 711 712 713 714 715 716 717	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped Unsigned32	29.329 [4]
704 705 706 707 708 709 710 711 712 713 714 715 716 717 718	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated	29.329 [4]
704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags Call-Reference-Info	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated	29.329 [4]
704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags Call-Reference-Info Call-Reference-Number	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Enumerated Enumerated OctetString	29.329 [4]
704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags Call-Reference-Info Call-Reference-Number AS-Number	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated	29.329 [4]
704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 Note:	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags Call-Reference-Info Call-Reference-Number AS-Number The AVP codes from 723 to799 are reserved for TS 29.329.	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Enumerated Enumerated OctetString	29.329 [4]
704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 Note:	Service-Indication Subs-Req-Type Requested-Domain Current-Location Identity-Set Expiry-Time Send-Data-Indication DSAI-Tag One-Time-Notification Requested-Nodes Serving-Node-Indication Repository-Data-ID Sequence-Number Pre-paging-Supported Local-Time-Zone-Indication UDR-Flags Call-Reference-Info Call-Reference-Number AS-Number	Enumerated OctetString Enumerated Enumerated Enumerated Enumerated Time Enumerated OctetString Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Enumerated Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Enumerated Enumerated OctetString	32.299 [5]

4 SIP-Method UTF8String 5 Event UTF8String 6 Content-Type UTF8String 7 Content-Length Unsigned32 8 Content-Disposition UTF8String 9 Role-of-Node Enumerated 0 User-Session-Id UTF8String 1 Calling-Party-Address UTF8String 2 Called-Party-Address UTF8String 3 Time-Stamps Grouped 4 SIP-Request-Timestamp Time 5 SIP-Response-Timestamp Time 6 Application-Server UTF8String 7 Application-provided-called-party-address UTF8String 8 Inter-Operator-Identifier Grouped 9 Originating-IOI UTF8String 1 IMS-Charging-Identifier UTF8String 1 IMS-Charging-Identifier UTF8String 3 SDP-Media-Component Grouped 4 SDP-Media-Component Grouped 5 SDP-Media-Description UTF8String 6 CG-Address Address 7 GGSN-Address Address 8 Served-Party-IP-Address Address 9 Authorized-QoS UTF8String 0 Application-Server-Information Grouped
Gontent-Type UTF8String Content-Length Unsigned32 Content-Length Unsigned32 Content-Disposition UTF8String Role-of-Node Enumerated USer-Session-Id UTF8String Calling-Party-Address UTF8String Called-Party-Address UTF8String Called-Party-Malled-Party-Address UTF8String Called-Party-Malled-Party-Address Address Called-Party-P-Address Address Called-Party-P-Address Address Called-Party-P-Address Address Called-Party-P-Address Called-Party-P-Address Called-Party-P-Address Called-Party-P-Address Called-Party-P-Address Called-Party-P-Address Called-Party-P-Address Called-Party-P-Address Called-Party-Pa
7 Content-Length Unsigned32 8 Content-Disposition UTF8String 9 Role-of-Node Enumerated 0 User-Session-Id UTF8String 1 Calling-Party-Address UTF8String 2 Called-Party-Address UTF8String 3 Time-Stamps Grouped 4 SIP-Request-Timestamp Time 5 SIP-Response-Timestamp Time 6 Application-Server UTF8String 7 Application-provided-called-party-address UTF8String 8 Inter-Operator-Identifier Grouped 9 Originating-IOI UTF8String 0 Terminating-IOI UTF8String 1 IMS-Charging-Identifier UTF8String 2 SDP-Session-Description UTF8String 3 SDP-Media-Component Grouped 4 SDP-Media-Name UTF8String 5 SDP-Media-Description UTF8String 6 CG-Address Address 8 Served-Party-IP-Address Address 9 Authorized-QoS UTF8String 0 Application-Server-Information Grouped
String
Role-of-Node Enumerated User-Session-Id UTF8String Calling-Party-Address UTF8String Called-Party-Address UTF8String Called-Party-Address UTF8String Time-Stamps Grouped SIP-Request-Timestamp Time SIP-Response-Timestamp Time Application-Server UTF8String Application-provided-called-party-address UTF8String Inter-Operator-Identifier Grouped Originating-IOI UTF8String Terminating-IOI UTF8String IMS-Charging-Identifier UTF8String SDP-Session-Description UTF8String SDP-Media-Component Grouped SDP-Media-Description UTF8String Address Served-Party-IP-Address Address Served-Party-IP-Address Address
User-Session-Id UTF8String Calling-Party-Address UTF8String Called-Party-Address UTF8String Time-Stamps Grouped SIP-Request-Timestamp Time SIP-Response-Timestamp Time Application-Server UTF8String Inter-Operator-Identifier Grouped Originating-IOI UTF8String Terminating-IOI UTF8String IMS-Charging-Identifier UTF8String SDP-Session-Description UTF8String SDP-Media-Component Grouped SDP-Media-Name UTF8String SDP-Media-Description UTF8String SDP-Media-Description UTF8String SDP-Media-Description UTF8String SOP-Media-Description UTF8String SDP-Media-Description UTF8String Address Served-Party-IP-Address Address Served-Party-IP-Address Address
1 Calling-Party-Address UTF8String 2 Called-Party-Address UTF8String 3 Time-Stamps Grouped 4 SIP-Request-Timestamp Time 5 SIP-Response-Timestamp Time 6 Application-Server UTF8String 7 Application-provided-called-party-address UTF8String 8 Inter-Operator-Identifier Grouped 9 Originating-IOI UTF8String 0 Terminating-IOI UTF8String 1 IMS-Charging-Identifier UTF8String 2 SDP-Session-Description UTF8String 3 SDP-Media-Component Grouped 4 SDP-Media-Name UTF8String 5 SDP-Media-Description UTF8String 6 CG-Address Address 7 GGSN-Address Address 8 Served-Party-IP-Address Address 9 Authorized-QoS UTF8String 0 Application-Server-Information Grouped
2 Called-Party-AddressUTF8String3 Time-StampsGrouped4 SIP-Request-TimestampTime5 SIP-Response-TimestampTime6 Application-ServerUTF8String7 Application-provided-called-party-addressUTF8String8 Inter-Operator-IdentifierGrouped9 Originating-IOIUTF8String1 IMS-Charging-IdentifierUTF8String2 SDP-Session-DescriptionUTF8String3 SDP-Media-ComponentGrouped4 SDP-Media-NameUTF8String5 SDP-Media-DescriptionUTF8String6 CG-AddressAddress7 GGSN-AddressAddress8 Served-Party-IP-AddressAddress9 Authorized-QoSUTF8String0 Application-Server-InformationGrouped
Time-Stamps 4 SIP-Request-Timestamp 5 SIP-Response-Timestamp 6 Application-Server 7 Application-provided-called-party-address 8 Inter-Operator-Identifier 9 Originating-IOI 1 Terminating-IOI 1 IMS-Charging-Identifier 2 SDP-Session-Description 3 SDP-Media-Component 4 SDP-Media-Component 5 SDP-Media-Description 6 CG-Address 7 GGSN-Address 8 Served-Party-IP-Address 9 Authorized-QoS 1 Time 1 Time 1 UTF8String 2 SDP-Media-Component 3 SDP-Media-Component 4 SDP-Media-Description 5 SDP-Media-Description 6 CG-Address 7 GGSN-Address 8 Served-Party-IP-Address 9 Authorized-QoS 1 UTF8String 1 O Application-Server-Information 1 Grouped
4 SIP-Request-Timestamp 5 SIP-Response-Timestamp 6 Application-Server 7 Application-provided-called-party-address 8 Inter-Operator-Identifier 9 Originating-IOI 10 UTF8String 10 Terminating-IOI 11 UTF8String 12 SDP-Session-Description 13 SDP-Media-Component 14 SDP-Media-Component 15 SDP-Media-Description 16 CG-Address 17 GGSN-Address 18 Served-Party-IP-Address 19 Authorized-QoS 10 UTF8String 10 UTF8String 11 UTF8String 12 SDP-Media-Component 13 SDP-Media-Component 14 SDP-Media-Name 15 SDP-Media-Description 16 CG-Address 17 GGSN-Address 18 Served-Party-IP-Address 19 Authorized-QoS 10 Application-Server-Information 10 Grouped 11 SIP-Request-Timestamp 12 UTF8String 13 SDP-Media-Description 14 SDP-Media-Description 15 SDP-Media-Description 16 CG-Address 17 GGSN-Address 18 Served-Party-IP-Address 19 Authorized-QoS 10 Application-Server-Information 17 SIP-Media-Description 18 SIP-Response-Times 18 UTF8String 19 SIP-Response-Times 19 UTF8String 10 Application-Server-Information 10 Grouped
5SIP-Response-TimestampTime6Application-ServerUTF8String7Application-provided-called-party-addressUTF8String8Inter-Operator-IdentifierGrouped9Originating-IOIUTF8String0Terminating-IOIUTF8String1IMS-Charging-IdentifierUTF8String2SDP-Session-DescriptionUTF8String3SDP-Media-ComponentGrouped4SDP-Media-NameUTF8String5SDP-Media-DescriptionUTF8String6CG-AddressAddress7GGSN-AddressAddress8Served-Party-IP-AddressAddress9Authorized-QoSUTF8String0Application-Server-InformationGrouped
5SIP-Response-TimestampTime6Application-ServerUTF8String7Application-provided-called-party-addressUTF8String8Inter-Operator-IdentifierGrouped9Originating-IOIUTF8String0Terminating-IOIUTF8String1IMS-Charging-IdentifierUTF8String2SDP-Session-DescriptionUTF8String3SDP-Media-ComponentGrouped4SDP-Media-NameUTF8String5SDP-Media-DescriptionUTF8String6CG-AddressAddress7GGSN-AddressAddress8Served-Party-IP-AddressAddress9Authorized-QoSUTF8String0Application-Server-InformationGrouped
Application-Server Application-provided-called-party-address BInter-Operator-Identifier BInter-Operator-Identifier BInter-Operator-Identifier BINS-Charging-IOI BINS-Charging-Identifier BINS-Chargi
7 Application-provided-called-party-address 8 Inter-Operator-Identifier Grouped 9 Originating-IOI UTF8String 10 Terminating-IOI UTF8String 11 IMS-Charging-Identifier UTF8String 12 SDP-Session-Description UTF8String 13 SDP-Media-Component Grouped 14 SDP-Media-Name UTF8String 15 SDP-Media-Description UTF8String 16 CG-Address Address 17 GGSN-Address Address 18 Served-Party-IP-Address Address 19 Authorized-QoS UTF8String 10 Application-Server-Information Grouped
8 Inter-Operator-Identifier Grouped 9 Originating-IOI UTF8String 0 Terminating-IOI UTF8String 1 IMS-Charging-Identifier UTF8String 2 SDP-Session-Description UTF8String 3 SDP-Media-Component Grouped 4 SDP-Media-Name UTF8String 5 SDP-Media-Description UTF8String 6 CG-Address Address 7 GGSN-Address Address 8 Served-Party-IP-Address Address 9 Authorized-QoS UTF8String 0 Application-Server-Information Grouped
9 Originating-IOI UTF8String 0 Terminating-IOI UTF8String 1 IMS-Charging-Identifier UTF8String 2 SDP-Session-Description UTF8String 3 SDP-Media-Component Grouped 4 SDP-Media-Name UTF8String 5 SDP-Media-Description UTF8String 6 CG-Address Address 7 GGSN-Address Address 8 Served-Party-IP-Address Address 9 Authorized-QoS UTF8String 0 Application-Server-Information Grouped
0 Terminating-IOI UTF8String 1 IMS-Charging-Identifier UTF8String 2 SDP-Session-Description UTF8String 3 SDP-Media-Component Grouped 4 SDP-Media-Name UTF8String 5 SDP-Media-Description UTF8String 6 CG-Address Address 7 GGSN-Address Address 8 Served-Party-IP-Address Address 9 Authorized-QoS UTF8String 0 Application-Server-Information Grouped
1 IMS-Charging-Identifier UTF8String 2 SDP-Session-Description UTF8String 3 SDP-Media-Component Grouped 4 SDP-Media-Name UTF8String 5 SDP-Media-Description UTF8String 6 CG-Address Address 7 GGSN-Address Address 8 Served-Party-IP-Address Address 9 Authorized-QoS UTF8String 0 Application-Server-Information Grouped
2 SDP-Session-Description UTF8String 3 SDP-Media-Component Grouped 4 SDP-Media-Name UTF8String 5 SDP-Media-Description UTF8String 6 CG-Address Address 7 GGSN-Address Address 8 Served-Party-IP-Address Address 9 Authorized-QoS UTF8String 0 Application-Server-Information Grouped
3 SDP-Media-Component Grouped 4 SDP-Media-Name UTF8String 5 SDP-Media-Description UTF8String 6 CG-Address Address 7 GGSN-Address Address 8 Served-Party-IP-Address Address 9 Authorized-QoS UTF8String 0 Application-Server-Information Grouped
4 SDP-Media-Name UTF8String 5 SDP-Media-Description UTF8String 6 CG-Address Address 7 GGSN-Address Address 8 Served-Party-IP-Address Address 9 Authorized-QoS UTF8String 0 Application-Server-Information Grouped
5 SDP-Media-Description UTF8String 6 CG-Address Address 7 GGSN-Address Address 8 Served-Party-IP-Address Address 9 Authorized-QoS UTF8String 0 Application-Server-Information Grouped
6 CG-Address Address 7 GGSN-Address Address 8 Served-Party-IP-Address Address 9 Authorized-QoS UTF8String 0 Application-Server-Information Grouped
7 GGSN-Address Address 8 Served-Party-IP-Address Address 9 Authorized-QoS UTF8String 0 Application-Server-Information Grouped
8 Served-Party-IP-Address Address 9 Authorized-QoS UTF8String 0 Application-Server-Information Grouped
9 Authorized-QoS UTF8String 0 Application-Server-Information Grouped
0 Application-Server-Information Grouped
2 Incoming-Trunk-Group-Id UTF8String
3 Outgoing-Trunk-Group-Id UTF8String
4 Bearer-Service OctetString
5 Service-Id UTF8String
6 Associated-URI UTF8String
7 Charged-Party UTF8String
8 PoC-Controlling-Address UTF8String
9 PoC-Group-Name UTF8String
0 Cause Grouped
1 Cause-Code Integer32
2 Node-Functionality Enumerated
3 Service-Specific-Data UTF8String
4 Originator Enumerated
5 PS-Furnish-Charging-Information Grouped
6 PS-Free-Format-Data OctetString
7 PS-Append-Free-Format-Data Enumerated
8 Time-Quota-Threshold Unsigned32
9 Volume-Quota-Threshold Unsigned32
0 Trigger-Type Enumerated
1 Quota-Holding-Time Unsigned32
2 Reporting-Reason Enumerated
3 Service-Information Grouped
4 PS-Information Grouped
5 Reserved -
6 IMS-Information Grouped
7 MMS-Information Grouped 8 LCS-Information Grouped
9 PoC-Information Grouped Grouped
0 MBMS-Information Grouped Grouped
2 Media-Initiator-Flag Enumerated
2 IDoC Comion Dolo
3 PoC-Server-Role Enumerated
4 PoC-Session-Type Enumerated
4 PoC-Session-Type Enumerated 5 Number-Of-Participants Unsigned32
4 PoC-Session-Type Enumerated 5 Number-Of-Participants Unsigned32 6 Originator-Address Grouped
4 PoC-Session-Type Enumerated 5 Number-Of-Participants Unsigned32

	Message-Body	Grouped	
	Reserved	-	
	Address-Data	UTF8String	
	Address-Domain	Grouped	
899	Address-Type	Enumerated	
200	TMOL	0-4404	
	TMGI	OctectString	
	Required-MBMS-Bearer-Capabilities	UTF8String	
	MBMS-StartStop-Indication	Enumerated	
	MBMS-Service-Area	OctectString	
	MBMS-Session-Duration	Unsigned32	
	Alternative-APN	UTF8String	
	MBMS-Service-Type MBMS-2G-3G-Indicator	Enumerated Enumerated	
	MBMS-Session-Identity	OctetString	
909		UTF8String	
	Additional-MBMS-Trace-Info	OctetString	
	MBMS-Time-To-Data-Transfer	Unsigned32	
	MBMS-Session-Identity-Repetition-Number	Unsigned32	
	MBMS-Required-QoS	UTF8String	
	MBMS-Counting-Information	Enumerated	
	MBMS-User-Data-Mode-Indication	Enumerated	
	MBMS-GGSN-Address	UTF8String	
	MBMS-GGSN-IPv6-Address	UTF8String	29.061 [13]
	MBMS-BMSC-SSM-IP-Address	UTF8String	25.001 [10]
	MBMS-BMSC-SSM-IPv6-Address	UTF8String	
	MBMS-Flow-Identifier	OctetString	
	CN-IP-Multicast-Distribution	Enumerated	
	MBMS-HC-Indicator	Enumerated	
	MBMS-Access-Indicator	Enumerated	
	MBMS-GW-SSM-IP-Address	OctetString	
	MBMS-GW-SSM-IPv6-Address	OctetString	
	MBMS-BMSC-SSM-UDP-Port	OctetString	
	MBMS-GW-UDP-Port	OctetString	
	MBMS-GW-UDP-Port-Indicator	Enumerated	
	MBMS-Data-Transfer-Start	Unsigned64	
930	MBMS-Data-Transfer-Stop	Unsigned64	
	MBMS-Flags	Unsigned32	
	Restart-Counter	Unsigned32	
	Diagnostic-Info	Unsigned32	
	MBMS-Cell-List	OctetString	
	The AVP codes from 935 to 999 are reserved for TS 29.061		
	Bearer-Usage	Enumerated	
	Charging-Rule-Install	Grouped	
	Charging-Rule-Remove	Grouped	
	Charging-Rule-Definition	Grouped	
	Charging-Rule-Base-Name	UTF8String	
	Charging-Rule-Name	OctetString	
	Event-Trigger	Enumerated	
	Metering-Method	Enumerated	00 040 [40]
	Offline	Enumerated	29.212 [19]
	Online	Enumerated	
	Precedence	Unsigned32	
	Reporting-Level	Enumerated	
	TFT-Filter TET Packet Filter Information	IPFilterRule Grouped	
	TFT-Packet-Filter-Information ToS-Traffic-Class	Grouped	
	QoS-Information	OctetString Grouped	
10.18	Charging-Rule-Report	Grouped	

1019 PCC-Rule-Status	Enumerated
1020 Bearer-Identifier	OctetString
1021 Bearer-Operation	Enumerated
1022 Access-Network-Charging-Identifier-Gx	Grouped
1023 Bearer-Control-Mode	Enumerated
1024 Network-Request-Support	Enumerated
1025 Guaranteed-Bitrate-DL	Unsigned32
1026 Guaranteed-Bitrate-UL	Unsigned32
1027 IP-CAN-Type	Enumerated
1028 QoS-Class-Identifier	Enumerated
1029 QoS-Negotiation	Enumerated
1030 QoS-Upgrade	Enumerated
1031 Rule-Failure-Code	Enumerated
1032 RAT-Type	Enumerated
1033 Event-Report-Indication	Grouped
1034 Allocation-Retention-Priority	Grouped
1035 CoA-IP-Address	Address
1036 Tunnel-Header-Filter	IPFilterRule
1037 Tunnel-Header-Length	Unsigned32
1038 Tunnel-Information	Grouped
1039 CoA-Information	Grouped
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32
1041 APN-Aggregate-Max-Bitrate-UL	Unsigned32
1042 Revalidation-Time	Time
1043 Rule-Activation-Time	Time
1044 Rule-DeActivation-Time	Time
1045 Session-Release-Cause	Enumerated
1046 Priority-Level	Unsigned32
1047 Pre-emption-Capability	Enumerated
1048 Pre-emption-Vulnerability	Enumerated
1049 Default-EPS-Bearer-QoS	Grouped
1050 AN-GW-Address	Address
1051 QoS-Rule-Install	Grouped
1052 QoS-Rule-Remove	Grouped
1053 QoS-Rule-Definition	Grouped
1054 QoS-Rule-Name	OctetString
1055 QoS-Rule-Report	Grouped
1056 Security-Parameter-Index	OctetString
1057 Flow-Label	OctetString
1058 Flow-Information	Grouped
1059 Packet-Filter-Content	IPFilterRule
1060 Packet-Filter-Identifier	OctetString
1061 Packet-Filter-Information	Grouped
1062 Packet-Filter-Operation	Enumerated
1063 Resource-Allocation-Notification	Enumerated
1064 Session-Linking-Indicator	Enumerated
1065 PDN-Connection-ID	OctetString
1066 Monitoring-Key	OctetString
1067 Usage-Monitoring-Information	Grouped
1068 Usage-Monitoring-Level	Enumerated
1069 Usage-Monitoring-Report	Enumerated
1070 Usage-Monitoring-Support	Enumerated
1071 CSG-Information-Reporting	Enumerated
1072 Packet-Filter-Usage	Enumerated
1073 Charging-Correlation-Indicator	Enumerated
1074 QoS-Rule-Base-Name	UTF8String
1075 Routing-Rule-Remove	Grouped
1076 Routing-Rule-Definition	Grouped
1077 Routing-Rule-Demitton	OctetString
1077 Routing-Rule-Identifier	Grouped
1079 Routing-File 1	Address
1080 Flow-Direction	Enumerated
1081 Routing-Rule-Install	Grouped
	Unsigned32
1082 Credit-Management-Status	
1085 Redirect-Information	Grouped

1088 Redirect - Support				
1088 TDF-Application-Identifie			Enumerated	
1088 TDF-Oestination-Realm				
1090 TDF-Destination-Realm				
1991 TDF-IP-address				
1992 ADC-Rule-Install				
1993 ADC-Rule-Benove				
1094 ADC-Rule-Base-Name				
1095 ADC-Rule-Base-Name				
1096 ADC-Rule-Report				
1997 ADC-Rule-Report Grouped 1998 Application-Detection-Information Grouped 1999 PS-to-CS-Session-Continuity Enumerated 1999 PS-to-CS-Session-Continuity Enumerated 1991 PS-to-CS-Session-Continuity Enumerated 1992 PS-to-CS-Session-Continuity Groupe 1993 PS-to-CS-Session-Continuity Groupe 1994 The AVP codes from 1083 to 1084 are reserved for TS 29.212 1995 The AVP codes from 1083 to 1084 are reserved for TS 29.212 1996 The AVP codes from 1084 to 1084 are reserved for TS 29.212 1997 The AVP codes from 1084 to 1084 are reserved for TS 29.212 1998 The AVP codes from 119 to 1199 are reserved for TS 29.140 1998 The AVP codes from 119 to 1199 are reserved for TS 29.140 1999 The Address The AVP codes from 119 to 1199 are reserved for TS 29.140 1999 The Address The AVP codes from 119 to 1199 are reserved for TS 29.140 1990 Domain-Name UTF8String 1991 The Address UTF8String 1992 The Address UTF8String 1993 The AVP codes from 119 to 1199 are reserved for TS 29.140 1994 The AVP codes from 119 to 1199 are reserved for TS 29.140 1995 Domain-Name UTF8String 1996 The AVP codes from 119 to 1199 are reserved for TS 29.140 1997 Time Time Time 1998 The Address Time Time 1999 The Address Time Time 1991 The Address Time Time 1991 The Address Time Time 1991 The Address Time Time 1993 The Address Time Time 1994 The Address Time Time 1995 The Address Time Time 1996 The Address Time Time 1997 The Address Time Time 1998 The AVP codes Time Time 1999 The Address Time Time 1999 The Address Time Time 1999 The Address Time Time				
1998 Application-Detection-Information Grouped			, and the second	
1999 PS-tro-CS-Session-Continuity				
Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212				
1100 Sarved-User-Identity			Enumerated	
1101 VASP-ID			Groupe	
1102 VAS-ID				
1103 Trigger-Event				
1104 Sender-Address				
1105 Initial-Recipient-Address Grouped				
1106 Result-Recipient-Address				
1107 Sequence-Number				
1108 Recipient-Address				
1100 Routeing-Address				
1110 Originating-Interface				29.140 [16]
1111 Delivery-Report				[. 0]
1112 Read-Reply				
1113 Sender-Visibility				
1115 Billing-Information			Enumerated	
1116 Status			UTF8String	
1117 Status-Code	1115	Billing-Information	UTF8String	
1118 Status-Text	1116	Status	Grouped	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140			UTF8String	
1200 Domain-Name			UTF8String	
1201 Recipient-Address Grouped				
Time				
1203 MM-Content-Type Grouped Type-Number Enumerated Type-Number Enumerated 1205 Additional-Type-Information UTF8String 1206 Content-Size Unsigned32 1207 Additional-Content-Information Grouped 1208 Addressee-Type Enumerated 1209 Priority Enumerated 1210 Message-ID UTF8String 1211 Message-Type Enumerated 1212 Message-Size Unsigned32 1213 Message-Class Grouped 1214 Class-Identifier Enumerated 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1217 Adaptations Enumerated 1218 Applic-ID UTF8String 1219 Aux-Applic-Info UTF8String 1219 Aux-Applic-Info UTF8String 1220 Content-Class Enumerated 1221 DRM-Content Enumerated 1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTF8String 1224 File-Repair-Supported Enumerated 1225 MBMS-User-Service-Type Enumerated 1226 Unit-Quota-Threshold Unsigned32 1227 PDP-Address Address Address 1228 SGSN-Address Address 1228 Malerance 1228 M				
Type-Number				
1205 Additional-Type-Information UTF8String 1206 Content-Size Unsigned32 1207 Additional-Content-Information Grouped				
1206Content-SizeUnsigned321207Additional-Content-InformationGrouped1208Addressee-TypeEnumerated1209PriorityEnumerated1210Message-IDUTF8String1211Message-TypeEnumerated1212Message-SizeUnsigned321213Message-ClassGrouped1214Class-IdentifierEnumerated1215Token-TextUTF8String1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1221Aux-Applic-InfoUTF8String1221DRM-ContentEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String1224File-Repair-SupportedEnumerated1225MBMS-User-Service-TypeEnumerated1226Unit-Quota-ThresholdUnsigned321227PDP-AddressAddress1228SGSN-AddressAddress				
1207 Additional-Content-Information Grouped 1208 Addressee-Type Enumerated 1209 Priority Enumerated 1210 Message-ID UTF8String 1211 Message-Type Enumerated 1212 Message-Size Unsigned32 1213 Message-Class Grouped 1214 Class-Identifier Enumerated 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1217 Adaptations Enumerated 1218 Applic-ID UTF8String 1219 Aux-Applic-Info UTF8String 1220 Content-Class Enumerated 1221 DRM-Content Enumerated 1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTF8String 1224 File-Repair-Supported Enumerated 1225 MBMS-User-Service-Type Enumerated 1226 Unit-Quota-Threshold Unsigned32 1227 PDP-Address Address 1228 GGSN-Address Address				
1208 Addressee-Type				
1209 Priority				
1210Message-IDUTF8String1211Message-TypeEnumerated1212Message-SizeUnsigned321213Message-ClassGrouped1214Class-IdentifierEnumerated1215Token-TextUTF8String1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String1224File-Repair-SupportedEnumerated1225MBMS-User-Service-TypeEnumerated1226Unit-Quota-ThresholdUnsigned321227PDP-AddressAddress1228SGSN-AddressAddress				
1211Message-TypeEnumerated1212Message-SizeUnsigned321213Message-ClassGrouped1214Class-IdentifierEnumerated1215Token-TextUTF8String1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String1224File-Repair-SupportedEnumerated1225MBMS-User-Service-TypeEnumerated1226Unit-Quota-ThresholdUnsigned321227PDP-AddressAddress1228SGSN-AddressAddress				
1212Message-SizeUnsigned321213Message-ClassGrouped1214Class-IdentifierEnumerated1215Token-TextUTF8String1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String1224File-Repair-SupportedEnumerated1225MBMS-User-Service-TypeEnumerated1226Unit-Quota-ThresholdUnsigned321227PDP-AddressAddress1228SGSN-AddressAddress				
1213Message-ClassGrouped1214Class-IdentifierEnumerated1215Token-TextUTF8String1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String1224File-Repair-SupportedEnumerated1225MBMS-User-Service-TypeEnumerated1226Unit-Quota-ThresholdUnsigned321227PDP-AddressAddress1228SGSN-AddressAddress				
1214 Class-IdentifierEnumerated1215 Token-TextUTF8String1216 Delivery-Report-RequestedEnumerated1217 AdaptationsEnumerated1218 Applic-IDUTF8String1219 Aux-Applic-InfoUTF8String1220 Content-ClassEnumerated1221 DRM-ContentEnumerated1222 Read-Reply-Report-RequestedEnumerated1223 Reply-Applic-IDUTF8String1224 File-Repair-SupportedEnumerated1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress				
1215 Token-Text 1216 Delivery-Report-Requested 1217 Adaptations 1218 Applic-ID 1219 Aux-Applic-Info 1220 Content-Class 1221 DRM-Content 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1224 File-Repair-Supported 1225 MBMS-User-Service-Type 1226 Unit-Quota-Threshold 1227 PDP-Address 1228 SGSN-Address 1228 SGSN-Address				
1216Delivery-Report-RequestedEnumerated1217AdaptationsEnumerated1218Applic-IDUTF8String1219Aux-Applic-InfoUTF8String1220Content-ClassEnumerated1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String1224File-Repair-SupportedEnumerated1225MBMS-User-Service-TypeEnumerated1226Unit-Quota-ThresholdUnsigned321227PDP-AddressAddress1228SGSN-AddressAddress				32.299 [5]
1217 AdaptationsEnumerated1218 Applic-IDUTF8String1219 Aux-Applic-InfoUTF8String1220 Content-ClassEnumerated1221 DRM-ContentEnumerated1222 Read-Reply-Report-RequestedEnumerated1223 Reply-Applic-IDUTF8String1224 File-Repair-SupportedEnumerated1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress				
1218 Applic-IDUTF8String1219 Aux-Applic-InfoUTF8String1220 Content-ClassEnumerated1221 DRM-ContentEnumerated1222 Read-Reply-Report-RequestedEnumerated1223 Reply-Applic-IDUTF8String1224 File-Repair-SupportedEnumerated1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress				
1219 Aux-Applic-InfoUTF8String1220 Content-ClassEnumerated1221 DRM-ContentEnumerated1222 Read-Reply-Report-RequestedEnumerated1223 Reply-Applic-IDUTF8String1224 File-Repair-SupportedEnumerated1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress				
1220 Content-ClassEnumerated1221 DRM-ContentEnumerated1222 Read-Reply-Report-RequestedEnumerated1223 Reply-Applic-IDUTF8String1224 File-Repair-SupportedEnumerated1225 MBMS-User-Service-TypeEnumerated1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress				
1221DRM-ContentEnumerated1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String1224File-Repair-SupportedEnumerated1225MBMS-User-Service-TypeEnumerated1226Unit-Quota-ThresholdUnsigned321227PDP-AddressAddress1228SGSN-AddressAddress				
1222Read-Reply-Report-RequestedEnumerated1223Reply-Applic-IDUTF8String1224File-Repair-SupportedEnumerated1225MBMS-User-Service-TypeEnumerated1226Unit-Quota-ThresholdUnsigned321227PDP-AddressAddress1228SGSN-AddressAddress				
1223Reply-Applic-IDUTF8String1224File-Repair-SupportedEnumerated1225MBMS-User-Service-TypeEnumerated1226Unit-Quota-ThresholdUnsigned321227PDP-AddressAddress1228SGSN-AddressAddress				
1224File-Repair-SupportedEnumerated1225MBMS-User-Service-TypeEnumerated1226Unit-Quota-ThresholdUnsigned321227PDP-AddressAddress1228SGSN-AddressAddress				
1225MBMS-User-Service-TypeEnumerated1226Unit-Quota-ThresholdUnsigned321227PDP-AddressAddress1228SGSN-AddressAddress				
1226 Unit-Quota-ThresholdUnsigned321227 PDP-AddressAddress1228 SGSN-AddressAddress				
1227 PDP-AddressAddress1228 SGSN-AddressAddress				
1229 PoC-Session-Id UTF8String	1228	SGSN-Address	Address	
	1229	PoC-Session-Id	UTF8String	

[4000]B () () ()	LITEOGL	
1230 Deferred-Location-Even-Type	UTF8String	
1231 LCS-APN	UTF8String	
1232 LCS-Client-Id	Grouped	
1233 LCS-Client-Dialed-By-MS	UTF8String	
1234 LCS-Client-External-ID	UTF8String	
1235 LCS-Client-Name	Grouped	
1236 LCS-Data-Coding-Scheme	UTF8String	
1237 LCS-Format-Indicator	Enumerated	
1238 LCS-Name-String	UTF8String	
	Ŭ	
1239 LCS-Requestor-Id	Grouped	
1240 LCS-Requestor-Id-String	UTF8String	
1241 LCS-Client-Type	Enumerated	
1242 Location-Estimate	OctetString	
1243 Location-Estimate-Type	Enumerated	
1244 Location-Type	Grouped	
1245 Positioning-Data	UTF8String	
1246 Reserved	- CTT COUNTY	
1247 PDP-Context-Type	Enumerated	
1248 MMBox-Storage-Requested	Enumerated	
1249 Service-Specific-Info	Grouped	
1250 Called-Asserted-Identity	UTF8String	
1251 Requested-Party-Address	UTF8String	
1252 PoC-User-Role	Grouped	
1253 PoC-User-Role-IDs	UTF8String	
1254 PoC-User-Role-info-Units	Enumerated	
1255 Talk-Burst-Exchange	Grouped	
1256 Service-Generic-Information	Grouped	
1257 Service-Specific-Type	Unsigned32	
1258 Event-Charging-TimeStamp	Time	
1259 Participant-Access-Priority	Enumerated	
1260 Participant-Group	Grouped	
1261 PoC-Change-Conditions	Enumerated	
1262 PoC-Change-Time	Time	
1263 Access-Network-Information	OctetString	
	Grouped	
1264 Trigger		
1265 Base-Time-Interval	Unsigned32	
1266 Envelope	Grouped	
1267 Envelope-End-Time	Time	
1268 Envelope-Reporting	Enumerated	
1269 Envelope-Start-Time	Time	
1270 Time-Quota-Mechanism	Grouped	
1271 Time-Quota-Type	Enumerated	
1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps		
	Grouped	
1274 SDP-Offer-Timestamp	Time	
1275 SDP-Answer-Timestamp	Time	
1276 AF-Correlation-Information	Grouped	
1277 PoC-Session-Initiation-type	Enumerated	
1278 Offline-Charging	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1280 Mis-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
	OTTOSHING	
Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299	C ****	
1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	29.272 [21]
1403 Software-Version	UTF8String	
1404 QoS-Subscribed	UTF8String	
-		

1405 ULR-Flags	Unsigned32
1406 ULA-Flags	Unsigned32
1407 Visited PLMN Id	OctetString
1408 Requested-EUTRAN-Authentication-Info	Grouped
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped
1410 Number-Of-Requested-Vectors	Unsigned32
1411 Re-Synchronization-Info	OctetString
1412 Immediate-Response-Preferred	Unsigned32
1413 Authentication-Info	Grouped
1414 E-UTRAN-Vector	Grouped
1415 UTRAN-Vector	Grouped
1416 GERAN-Vector	Grouped
1417 Network-Access-Mode	Enumerated
1418 HPLMN-ODB	Enumerated
1419 Item-Number	Unsigned32
1420 Cancellation-Type	Enumerated
1421 DSR-Flags	Unsigned32
1422 DSA-Flags	Unsigned32
1423 Context-Identifier	Unsigned32
1424 Subscriber-Status	Enumerated
1425 Operator-Determined-Barring	Unsigned32
1426 Access-Restriction-Data	UTF8String
1427 APN-OI-Replacement	UTF8String
1428 All-APN-Configurations-Included-Indicator	Enumerated
1429 APN-Configuration-Profile	Grouped
1430 APN-Configuration	Grouped
1431 EPS-Subscribed-QoS-Profile	Grouped
1432 VPLMN-Dynamic-Address-Allowed	Enumerated
1433 STN-SR	OctetString
1434 Alert-Reason	Enumerated
1435 AMBR	Grouped
1436 CSG-Subscription-Data	Grouped
1437 CSG-Id	Unsigned32
1438 PDN-GW-Allocation-Type	Enumerated
1439 Expiration-Date	Time
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32
1441 IDA-Flags	Unsigned32
1442 PUA-Flags	Unsigned32
1443 NOR-Flags	Unsigned32
1444 User-Id	UTF8String
1445 Equipment-Status	Enumerated
1446 Regional-Subscription-Zone-Code	OctetString
1447 RAND	OctetString
1448 XRES	OctetString
1449 AUTN	OctetString
1450 KASME	OctetString
1451 Reserved	-
1452 Trace-Collection-Entity	Address
1453 Kc	OctetString
1454 SRES	OctetString
1455 Reserved	
1456 PDN-Type	Enumerated
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated
1458 Trace-Data	Grouped
1459 Trace-Reference	OctetString
1460 Reserved	-
1461 Reserved	
1462 Trace-Depth	Enumerated
1463 Trace-NE-Type-List	OctetString
1464 Trace-Interface-List	OctetString
1465 Trace-Event-List	OctetString
IAACCIONO IA	OctetString
1466 OMC-Id	
1467 GPRS-Subscription-Data	Grouped

1.170 DDD T	1 0	
1470 PDP-Type	OctetString	
1471 3GPP2-MEID	OctetString	
1472 Specific-APN-Info	Grouped	
1473 LCS-Info	Grouped	
1474 GMLC-Number	OctetString	
1475 LCS-PrivacyException	Grouped	
1476 SS-Code	OctetString	
1477 SS-Status	OctetString	
1478 Notification-To-UE-User	Enumerated	
1479 External-Client	Grouped	
1480 Client-Identity	OctetString	
1481 GMLC-Restriction	Enumerated	
1482 PLMN-Client	Enumerated	
1483 Service-Type	Grouped	
1484 ServiceTypeIdentity	Unsigned32	
1485 MO-LR	Grouped	
1486 Teleservice-List	Grouped	
1487 TS-Code	Enumerated	
1488 Call-Barring-Info	Grouped	
1489 SGSN-Number	OctetString	
1490 IDR-Flags	Unsigned32	
1491 ICS-Indicator	Enumerated	
1492 IMS-Voice-Over-PS-Sessions-Supported	Enumerated	
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated	
1494 Last-UE-Activity-Time	Time	
1495 EPS-User-State	Grouped	
1496 EPS-Location-Information	Grouped	
1497 MME-User-State	Grouped	
1498 SGSN-User-State	Grouped	
1499 User-State	Enumerated	
1500 Non-3GPP-User-Data	Grouped	
1501 Non-3GPP-IP-Access	Enumerated	
1502 Non-3GPP-IP-Access-APN	Enumerated	
1503 AN-Trusted	Enumerated	
1504 ANID	UTF8String	
1505 Trace-Info		
	Grouped	
1506 MIP-FA-RK	OctetString	
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI	OctetString Unsigned32	
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags	OctetString Unsigned32 Unsigned32	
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier	OctetString Unsigned32 Unsigned32 Grouped	
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags	OctetString Unsigned32 Unsigned32	
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier	OctetString Unsigned32 Unsigned32 Grouped	
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32	
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id	OctetString Unsigned32 Unsigned32 Grouped Grouped	
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Unsigned32	
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32	
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Unsigned32	
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Unsigned32 OctetString	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Unsigned32 OctetString OctetString	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Unsigned32 OctetString OctetString Unsigned32	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type 1520 DER-Flags	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated Unsigned32	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type 1520 DER-Flags 1521 DEA-Flags	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type 1520 DER-Flags 1521 DEA-Flags 1522 RAR-Flags	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type 1520 DER-Flags 1521 DEA-Flags 1522 RAR-Flags 1523 DER-S6b-Flags	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated Unsigned32	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type 1520 DER-Flags 1521 DEA-Flags 1522 RAR-Flags 1523 DER-S6b-Flags 1524 SSID	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated Unsigned32	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type 1520 DER-Flags 1521 DEA-Flags 1522 RAR-Flags 1523 DER-S6b-Flags 1524 SSID 1525 HESSID	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated Unsigned32 Unsigned33	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type 1520 DER-Flags 1521 DEA-Flags 1522 RAR-Flags 1523 DER-S6b-Flags 1524 SSID 1525 HESSID 1526 Access-Network-Info	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated Unsigned32 UTF8String UTF8String Grouped	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type 1520 DER-Flags 1521 DEA-Flags 1522 RAR-Flags 1523 DER-S6b-Flags 1524 SSID 1526 Access-Network-Info 1527 TWAN-Connection-Mode	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated Unsigned32	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type 1520 DER-Flags 1521 DEA-Flags 1522 RAR-Flags 1523 DER-S6b-Flags 1524 SSID 1525 HESSID 1526 Access-Network-Info 1527 TWAN-Connectivity-Parameters	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated Unsigned32	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type 1520 DER-Flags 1521 DEA-Flags 1522 RAR-Flags 1523 DER-S6b-Flags 1524 SSID 1525 HESSID 1526 Access-Network-Info 1527 TWAN-Connectivity-Parameters 1529 Connectivity-Flags	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated Unsigned32	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type 1520 DER-Flags 1521 DEA-Flags 1522 RAR-Flags 1523 DER-S6b-Flags 1524 SSID 1525 HESSID 1526 Access-Network-Info 1527 TWAN-Connection-Mode 1528 TWAN-Connectivity-Parameters 1529 Connectivity-Flags 1530 TWAN-PCO	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated Unsigned32 OctetString	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type 1520 DER-Flags 1521 DEA-Flags 1522 RAR-Flags 1523 DER-S6b-Flags 1524 SSID 1525 HESSID 1526 Access-Network-Info 1527 TWAN-Connectivity-Parameters 1529 Connectivity-Flags	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated Unsigned32	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type 1520 DER-Flags 1521 DEA-Flags 1522 RAR-Flags 1523 DER-S6b-Flags 1524 SSID 1525 HESSID 1526 Access-Network-Info 1527 TWAN-Connection-Mode 1528 TWAN-Connectivity-Parameters 1529 Connectivity-Flags 1530 TWAN-PCO 1531 TWAG-CP-Address	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated Unsigned32 OctetString Address	29.273 [20]
1506 MIP-FA-RK 1507 MIP-FA-RK-SPI 1508 PPR-Flags 1509 WLAN-Identifier 1510 TWAN-Access-Info 1511 Access-Authorization-Flags 1512 TWAN-Default-APN-Context-Id 1513 Reserved 1514 Reserved 1515 Reserved 1516 Full-Network-Name 1517 Short-Network-Name 1517 Short-Network-Name 1518 AAA-Failure-Indication 1519 Transport-Access-Type 1520 DER-Flags 1521 DEA-Flags 1522 RAR-Flags 1523 DER-S6b-Flags 1524 SSID 1525 HESSID 1526 Access-Network-Info 1527 TWAN-Connection-Mode 1528 TWAN-Connectivity-Parameters 1529 Connectivity-Flags 1530 TWAN-PCO	OctetString Unsigned32 Unsigned32 Grouped Grouped Unsigned32 Unsigned32 OctetString OctetString Unsigned32 Enumerated Unsigned32 OctetString	29.273 [20]

[150 D11 D 1 0 5		
1534 SM-Back-Off-Timer	Unsigned32	
1535 WLCP-Key	OctetString	
318 3GPP-AAA-Server-Name	DiameterIdentity	
1536 Origination-Time-Stamp	Unsigned64	
1537 Maximum-Wait-Time	Unsigned32	
1538 Emergency-Indication	Unsigned32	
1539 AAR-Flags	Unsigned32	
Note 1: The AVP codes from 1540 to 1599 are reserved for TS 29		
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined	I in 3GPP TS 29.234 and is now define	ed in 3GPP TS
29.273 from Rel-12.		
1600 MME-Location-Information	Grouped	
1601 SGSN-Location-Information	Grouped	
1602 E-UTRAN-Cell-Global-Identity	OctetString	
1603 Tracking-Area-Identity	OctetString	
1604 Cell-Global-Identity	OctetString	
1605 Routing-Area-Identity	OctetString	
1606 Location-Area-Identity	OctetString	
1607 Service-Area-Identity	OctetString	
1608 Geographical-Information	OctetString	
1609 Geodetic-Information	OctetString	
1610 Current-Location-Retrieved	Enumerated	
1611 Age-Of-Location-Information	Unsigned32	
1612 Active-APN	Grouped	
1613 SIPTO-Permission	Enumerated	
1614 Error-Diagnostic	Enumerated	
1615 UE-SRVCC-Capability	Enumerated	
1616 MPS-Priority	Unsigned32	
1617 VPLMN-LIPA-Allowed	Enumerated	
1618 LIPA-Permission	Enumerated	
1619 Subscribed-Periodic-RAU-TAU-Timer	Unsigned32	
1620 Ext-PDP-Type	OctetString	
1621 Ext-PDP-Address	Address	
1622 MDT-Configuration	Grouped	
1623 Job-Type	Enumerated	
1624 Area-Scope	Grouped	
1625 List-Of-Measurements	Unsigned32	
1626 Reporting-Trigger	Unsigned32	
1627 Report-Interval	Enumerated	29.272 [21]
1628 Report-Amount	Enumerated	29.272 [21]
1629 Event-ThresholdRSRP	Unsigned32	
1630 Event-ThresholdRSRQ	Unsigned32	
1631 Logging-Interval	Enumerated	
1632 Logging-Interval	Enumerated	
1633 Relay-Node-Indicator		
1634 MDT-User-Consent	Enumerated Enumerated	
1635 PUR-Flags	Unsigned32	
1636 Subscribed-VSRVCC	Enumerated	
1637 Equivalent-PLMN-List	Grouped	
1638 CLR-Flags	Unsigned32	
1639 UVR-Flags	Unsigned32	
1640 UVA-Flags	Unsigned32	
1641 VPLMN-CSG-Subscription-Data	Grouped	
1642 Time-Zone	UTF8String	
1643 A-MSISDN	OctetString	
1644 Reserved	-	
1645 MME-Number-for-MT-SMS	OctetString	
1646 Reserved	-	
1647 Reserved	-	
1648 SMS-Register-Request	Enumerated	
1649 Local-Time-Zone	Grouped	
1650 Daylight-Saving-Time	Enumerated	
1651 GMLC-Info	Grouped	
1652 GMLC-Name	DiameterIdentity	
1653 GMLC-Realm	DiameterIdentity	
1654 Subscription-Data-Flags	Unsigned32	
,		

1655 Measurement-Period-LTE	Enumerated	
1656 Measurement-Period-UMTS	Enumerated	
1657 Collection-Period-RRM-LTE	Enumerated	
1658 Collection-Period-RRM-UMTS	Enumerated	
1659 Positioning-Method	OctetString	
1660 Measurement-Quantity	OctetString	
1661 Event-Threshold-Event-1F	Integer32	
1662 Event-Threshold-Event-1I	Integer32	
1663 Restoration-Priority	Unsigned32	
1664 SGs-MME-Identity	UTF8String	
1665 SIPTO-Local-Network-Permission	Unsigned32	
1666 Coupled-Node-Diameter-ID	DiameterIdentity	
1667 WLAN-offloadability	Grouped	
1668 WLAN-offloadability-EUTRAN	Unsigned32	
1669 WLAN-offloadability-UTRAN	Unsigned32	
1670 Reset-ID	OctetString	
1671 MDT-Allowed-PLMN-Id	OctetString	
1672 Adjacent-PLMNs	Grouped	
1673 Adjacent-Access-Restriction-Data	Grouped	
1674 DL-Buffering-Suggested-Packet-Count	Integer32	
1675 IMSI-Group-Id	Grouped	
1676 Group-Service-Id	Unsigned32	
1677 Group-PLMN-Id	OctetString	
1678 Local-Group-Id	OctetString	
1679 AIR-Flags	Unsigned32	
1680 UE-Usage-Type	Unsigned32	
1681 Non-IP-PDN-Type-Indicator	Enumerated	
1682 Non-IP-Data-Delivery-Mechanism	Unsigned32	
1683 Additional-Context-Identifier	Unsigned32	
1684 SCEF-Realm	DiameterIdentity	
1685 Reserved	-	
Note: The AVP codes from 1686 to 1699 are reserved for TS 29.272.		
2000 SMS-Information	Grouped	
2001 Data-Coding-Scheme	Integer32	
2002 Destination-Interface	Grouped	
2003 Interface-Id	UTF8String	
2004 Interface-rot	UTF8String	
2005 Interface-Text	UTF8String	
2006 Interface-Text	Enumerated	
2007 SM-Message-Type	Enumerated	
2008 Originating-SCCP-Address	Address	
2009 Originator-Interface	Grouped	
2010 Recipient-SCCP-Address	Address	
2011 Reply-Path-Requested	Enumerated	
2012 SM-Discharge-Time	Time	
2013 SM-Protocol-ID	OctetString	
2014 SM-Status		
	OctotString	
	OctetString	
2015 SM-User-Data-Header	OctetString	32 200 [5]
2015 SM-User-Data-Header 2016 SMS-Node	OctetString Enumerated	32.299 [5]
2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address	OctetString Enumerated Address	32.299 [5]
2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address	OctetString Enumerated Address Address	32.299 [5]
2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent	OctetString Enumerated Address Address Unsigned32	32.299 [5]
2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication	OctetString Enumerated Address Address Unsigned32 Enumerated	32.299 [5]
2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance	OctetString Enumerated Address Address Unsigned32 Enumerated Grouped	32.299 [5]
2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information	OctetString Enumerated Address Address Unsigned32 Enumerated Grouped OctetString	32.299 [5]
2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information	OctetString Enumerated Address Address Unsigned32 Enumerated Grouped OctetString UTF8String	32.299 [5]
2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information	OctetString Enumerated Address Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String	32.299 [5]
2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information 2025 PoC-Event-Type	OctetString Enumerated Address Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String Enumerated	32.299 [5]
2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information 2025 PoC-Event-Type 2026 Recipient-Info	OctetString Enumerated Address Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String Enumerated Grouped	32.299 [5]
2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information 2025 PoC-Event-Type 2026 Recipient-Info 2027 Originator-Received-Address	OctetString Enumerated Address Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String Enumerated Grouped Grouped	32.299 [5]
2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information 2025 PoC-Event-Type 2026 Recipient-Info 2027 Originator-Received-Address 2028 Recipient-Received-Address	OctetString Enumerated Address Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String Enumerated Grouped Grouped Grouped	32.299 [5]
2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information 2025 PoC-Event-Type 2026 Recipient-Info 2027 Originator-Received-Address 2028 Recipient-Received-Address 2029 SM-Service-Type	OctetString Enumerated Address Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String Enumerated Grouped Grouped Grouped Grouped	32.299 [5]
2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information 2025 PoC-Event-Type 2026 Recipient-Info 2027 Originator-Received-Address 2028 Recipient-Received-Address 2029 SM-Service-Type 2030 MMTel-Information	OctetString Enumerated Address Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String Enumerated Grouped Grouped Grouped Grouped Grouped Grouped Grouped	32.299 [5]
2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information 2025 PoC-Event-Type 2026 Recipient-Info 2027 Originator-Received-Address 2028 Recipient-Received-Address 2029 SM-Service-Type	OctetString Enumerated Address Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String Enumerated Grouped Grouped Grouped Grouped	32.299 [5]

	<u>, </u>	
2033 Subscriber-Role	Enumerated	
2034 Number-Of-Diversions	Unsigned32	
2035 Associated-Party-Address	UTF8String	
2036 SDP-Type	Enumerated	
2037 Change-Condition	Integer32	
2038 Change-Time	Time	
2039 Diagnostics	Integer32	
2040 Service-Data-Container	Grouped	
2041 Start-Time	Time	
2042 Stop-Time	Time	
2043 Time-First-Usage	Time	
2044 Time-Last-Usage	Time	
2045 Time-Usage	Unsigned32	
2046 Traffic-Data-Volumes	Grouped	
2047 Serving-Node-Type	Enumerated	
2048 Supplementary-Service	Grouped	
2049 Participant-Action-Type	Enumerated	
2050 PDN-Connection-Charging-ID	Unsigned32	
2051 Dynamic-Address-Flag	Enumerated	
2052 Accumulated-Cost	Grouped	
2053 AoC-Cost-Information	Grouped	
2054 AoC-Information	Grouped	
2055 AoC-Request-Type	Enumerated	
2056 Current-Tariff	Grouped	
2057 Next-Tariff	Grouped	
2058 Rate-Element	Grouped	
2059 Scale-Factor	Grouped	
2060 Tariff-Information	Grouped	
2061 Unit-Cost	Grouped	
2062 Incremental-Cost	Grouped	
2063 Local-Sequence-Number	Unsigned32	
2064 Node-Id	UTF8String	
2065 SGW-Change	Enumerated	
2066 Charging-Characteristic-Selection-Mode	Enumerated	
2007 SGW-Address	Address	
2068 Dynamic-Address-Flag-Extension Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.	Enumerated	
2100 reserved	1	
2101 Application-Server-ID	- UTF8String	
2102 Application-Service-Type		
	Enumerated	
2103 Application-Session-ID	Unsigned32	
2104 Delivery-Status	UTF8String	
2105 reserved	-	
2106 reserved	-	
2107 reserved	-	
2108 reserved	-	22 202 [5]
2109 reserved	- One!	32.299 [5]
2110 IM-Information	Grouped	
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112 Number-Of-Messages-Successfully-Sent	Unsigned32	
2113 Total-Number-Of-Messages-Exploded	Unsigned32	
2114 Total-Number-Of-Messages-Sent	Unsigned32	
2115 DCD-Information	Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String	
2118 Charge-Reason-Code	Enumerated	
Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299.		
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
2202 Subsession-Id	Unsigned32	
2203 Subsession-Operation	Enumerated	29.215 [22]
2204 Multiple-BBERF-Action	Enumerated	20.210 [22]
2205 UE-Local-IPv6-Prefix	OctetString	
2206 DRA-Deployment	Enumerated	
2207 PCRF-Address	DiameterIdentity	

2208 DRA-Binding	Enumerated	
Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215.	Lituitierateu	
2300 reserved	_	
2301 SIP-Request-Timestamp-Fraction	Unsigned32	
2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2303 Online-Charging-Flag	Enumerated	
2304 CUG-Information	OctetString	
2305 Real-Time-Tariff-Information		
	Grouped	
2306 Tariff-XML	UTF8String	
2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
2309 Account-Expiration	Time	
2310 AoC-Format	Enumerated	
2311 AoC-Service	Enumerated	32.299 [5]
2312 AoC-Service-Obligatory-Type	Grouped	[-]
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	-	
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator	Enumerated	
2323 MBMS-Charged-Party	Enumerated	
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.		1
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets	Unsigned32	
2404 CC3-Capabilities-Sets 2405 GMLC-Address	Address	
		29.173 [25]
2406 Additional-Serving-Node	Grouped	
2407 PPR-Address	Address	
2408 MME-Realm	DiameterIdentity	
2409 SGSN-Name	DiameterIdentity	
2410 SGSN-Realm	DiameterIdentity	
2411 RIA-Flags	Unsigned32	
Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173.		T
2500 SLg-Location-Type	Enumerated	
2501 LCS-EPS-Client-Name	Grouped	
2502 LCS-Requestor-Name	Grouped	
2503 LCS-Priority	Unsigned32	
2504 LCS-QoS	Grouped	
2505 Horizontal-Accuracy	Unsigned32	
2506 Vertical-Accuracy	Unsigned32	
2507 Vertical-Requested	Enumerated	
2508 Velocity-Requested	Enumerated	
2509 Response-Time	Enumerated	
2510 Supported-GAD-Shapes	Unsigned32	
2511 LCS-Codeword	UTF8String	
2512 LCS-Privacy-Check	Enumerated	29.172 [24]
2513 Accuracy-Fulfilment-Indicator	Enumerated	
2514 Age-Of-Location-Estimate	Unsigned32	
2515 Velocity-Estimate	OctetString	
2516 EUTRAN-Positioning-Data	OctetString	
2517 ECGI	OctetString	
2518 Location-Event	Enumerated	
2519 Pseudonym-Indicator	Enumerated	
2520 LCS-Service-Type-ID	Unsigned32	
2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session	Grouped	
2522 LCS-Privacy-Check-Session	Grouped Enumerated	
		i
2523 LCS-QoS-Class 2524 GERAN-Positioning-Info	Grouped	

2525 GERAN-Positioning-Data	OctetString	
2526 GERAN-GANSS-Positioning-Data	OctetString	
2527 UTRAN-Positioning-Info	Grouped	
2528 UTRAN-Positioning-Data	OctetString	
2529 UTRAN-GANSS-Positioning-Data	OctetString	
2530 LRR-Flags	Unsigned32	
2531 LCS-Reference-Number	OctetString	
2532 Deferred-Location-Type	Unsigned32	
2533 Area-Event-Info	Grouped	
2534 Area-Definition	Grouped	
2535 Area	Grouped	
2536 Area-Type	Unsigned32	
2537 Area-Identification	Grouped	
2538 Occurrence-Info	Enumerated	
2539 Interval-Time	Unsigned32	
2540 Periodic-LDR-Information	Grouped	
2541 Reporting-Amount	Unsigned32	
2542 Reporting-Interval	Unsigned32	
2543 Reporting-PLMN-List	Grouped	
2544 PLMN-ID-List	Grouped	
2545 PLR-Flags	Unsigned32	
2546 PLA-Flags	Unsigned32	
2547 Deferred-MT-LR-Data	Grouped	
2548 Termination-Cause	Unsigned32	
2549 LRA-Flags	Unsigned32	
2550 Periodic-Location-Support-Indicator	Enumerated	
2551 Prioritized-List-Indicator	Enumerated	
2552 ESMLC-Cell-Info	Grouped	
2553 Cell-Portion-ID	Unsigned32	
2554 1xRTT-RCID	OctetString	
2555 Delayed-Location-Reporting-Data	Grouped	
2556 Civic-Address	UTF8String	
2557 Barometric-Pressure	Unsigned32	
2558 UTRAN-Additional-Positioning-Data	OctetString	
Note: The AVP codes from 2559 to 2599 are reserved for TS 29.172.		
2600 reserved	-	
2601 IMS-Application-Reference-Identifier	UTF8String	
2602 Low-Priority-Indicator	Enumerated	
2603 IP-Realm-Default-Indicator	Enumerated	32.299 [5]
2604 Local-GW-Inserted-Indicator	Enumerated	
2605 Transcoder-Inserted-Indicator	Enumerated	
2606 PDP-Address-Prefix-Length	Unsigned32	
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299.	g	
2700 Reserved	-	
2701 Transit-IOI-List	UTF8String	
2702 Status-AS-Code	Enumerated	
2703 NNI-Information	Grouped	
2704 NNI-Type	Enumerated	
2705 Neighbour-Node-Address	Address	
2706 Relationship-Mode	Enumerated	
2700 Relationship-wode 2707 Session-Direction	Enumerated	
2707 Session-Direction 2708 From-Address	UTF8String	
2709 Access-Transfer-Information	Grouped	32.299 [5]
2710 Access-Transfer-Information 2710 Access-Transfer-Type	Enumerated	
2710 Access-Transfer-Type 2711 Related-IMS-Charging-Identifier	UTF8String	
2711 Related-IMS-Charging-Identifier 2712 Related-IMS-Charging-Identifier-Node	Address	
2713 IMS-Visited-Network-Identifier	UTF8String Grouped	
2714 TWAN-User-Location-Info	Grouped	
2715 Reserved	LITEOC4=: ==	
2716 BSSID	UTF8String	
2717 TAD-Identifier	Enumerated	
Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299.	<u></u>	
2800 Reserved	-	
2801 ADC-Revalidation-Time	 -	
2802 TDF-Application-Instance-Identifier	Time OctetString	29.212 [19]

2803 HeNB-BBF-FQDN	UTF8String	
2804 HeNB-Local-IP-Address	Address	-
2805 UE-Local-IP-Address	Address	-
2806 UDP-Source-Port	Unsigned32	-
2807 CS-Service-Qos-Request-Identifier	OctetString	-
2808 CS-Service-QoS-Request-Operation	Enumerated	-
2809 Mute-Notification	Enumerated	-
2810 Monitoring-Time	Time	-
2811 AN-GW-Status	Enumerated	-
2812 User-Location-Info-Time	Grouped	-
2813 CS-Service-Resource-Report	Time	-
2814 CS-Service-Resource-Failure-Cause		-
2815 CS-Service-Resource-Pallure-Cause	Enumerated	-
	Enumerated	-
2816 Default-QoS-Information	Grouped	-
2817 Default-QoS-Name	UTF8String	-
2818 Conditional-APN-Aggregate-Max-Bitrate	Grouped	
2819 RAN-NAS-Release-Cause	OctetString	
2820 Presence-Reporting-Area-Elements-List	OctetString	
2821 Presence-Reporting-Area-Identifier	OctetString	-
2822 Presence-Reporting-Area-Information	Grouped	-
2823 Presence-Reporting-Area-Status	Unsigned32	-
2824 NetLoc-Access-Support	Unsigned32	-
2825 Fixed-User-Location-Info	Grouped	
2826 PCSCF-Restoration-Indication	Unsigned32	
2827 IP-CAN-Session-Charging-Scope	Enumerated	
2828 Monitoring-Flags	Unsigned32	
2829 Default-Access	Enumerated	
2830 NBIFOM-Mode	Enumerated	
2831 NBIFOM-Support	Enumerated	_
2832 RAN-Rule-Support	Unsigned32	
2833 Access-Availability-Change-Reason	Unsigned32	
2834 Routing-Rule-Failure-Code	Unsigned32	
2835 Routing-Rule-Report	Grouped]
2836 Traffic-Steering-Policy-Identifier-DL	OctetString	
2837 Traffic-Steering-Policy-Identifier-UL	OctetString]
2838 Request-Type	Unsigned32	
2839 Execution-Time	Time	
2840 Conditional-Policy-Information	Grouped]
2841 Resource-Release-Notification	Enumerated	
2842 Removal-Of-Access	Enumerated	
2843 TCP-Source-Port	Unsigned32	
Note: The AVP codes from 2844 to 2899 are reserved for TS 29.212.	-	
2900 reserved	-	
2901 Policy-Counter-Identifier	Grouped	1
2902 Policy-Counter-Status	UTF8String	29.219 [26]
2903 Policy-Counter-Status-Report	Grouped	
2904 SL-Request-Type	Enumerated	1
Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219.		
3000 reserved	-	
3001 Device-Action	Grouped	1
3002 Device-Notification	Grouped	1
3003 Trigger-Data	Grouped	1
3004 Payload	OctetString	1
3005 Action-Type	Enumerated	1
3006 Priority-Indication	Enumerated	29.368 [27]
3007 Reference-Number	Unsigned32	20.000 [21]
3008 Request-Status	Enumerated	1
3009 Delivery-Outcome	Enumerated	1
3010 Application-Port-Identifier	Unsigned32	-
3011 Old-Reference-Number	Unsigned32	1
		4
3012 Feature-Supported-In-Final-Target	Unsigned32	
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.	Unsigned32	
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368. 3100 IP-SM-GW-Number	Unsigned32 OctetString	20 226 [20]
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.	Unsigned32	29.336 [28]

3103 Sci-clentity CotetString			
3105 Service-Parameters Grouped	3103 Service-ID	Enumerated	
3106 Int-Parameters Grouped			
Service-Data Grouped			
1916 1917 1918			
1910 SHS-Cause			
13110 SIR-Flags			
3111 External-Identifier			
13112 PS-SM-GW-Realm			
State			
3114 Communication-Pattern-Set Grouped			
3115 Periodic-Communication-Indicator			
State Unsigned32 1118 Scheduled-Communication-Time Unsigned32 1118 Scheduled-Communication-Time Grouped 1119 Stationary-Indication Unsigned32 1120 AESE-Communication-Pattern-Config-Status Grouped 1121 AESE-Error-Report Grouped 1122 Monitoring-Event-Configuration Grouped 1122 Monitoring-Event-Configuration Grouped 1123 Monitoring-Event-Configuration Grouped 1124 SCEF-Reference-ID Unsigned32 1124 SCEF-Reference-ID Unsigned32 1126 SCEF-ID DiameterIdentity 1126 SCEF-ID Unsigned32 1126 SCEF-Reference-ID-for-Deletion Unsigned32 1128 Maximum-Number-of-Reports Unsigned32 1128 Maximum-Number-of-Reports Unsigned32 1128 Maximum-Number-of-Reports Unsigned32 1139 Monitoring-Duration Grouped 1130 Monitoring-Duration Grouped 1130 Monitoring-Duration Time Unsigned32 1131 Maximum-Detection-Time Unsigned32 1131 Maximum-Detection-Time Unsigned32 1131 Maximum-Detection-Time Unsigned32 1131 Maximum-Latency Unsigned32 1131 Maximum-Latency Unsigned32 1132 Cacitorion-Type Unsigned32 1134 Maximum-Response-Time Unsigned32 1136 Cacitorion-Type Unsigned32 1138 Cacitorion-Type Unsigned32 1139 Roaming-Information Unsigned32 1131 Mill-Change Unsigned32 1131 Mill-Change Unsigned32 1131 Mill-Change Unsigned32 1131 Mill-Change Unsigned32 1131			
13117 Periodic-Time			
Scheduled-Communication-Time			
Stationary-Indication			
3120 AESE-Communication-Pattern-Config-Status Grouped 3121 AESE-Error-Report Grouped 3122 Monitoring-Event-Configuration Grouped 3123 Monitoring-Event-Report Grouped 3124 SCEF-Reference-ID Unsigned32 3125 SCEF-ID DiameterIdentity 3126 SCEF-Reference-ID-for-Deletion Unsigned32 3127 Monitoring-Type Unsigned32 3128 Maximum-Number-of-Reports Unsigned32 3128 Maximum-Number-of-Reports Unsigned32 3129 UE-Reachability-Configuration Grouped 3130 Monitoring-Duration Time 3131 Maximum-Detection-Time Unsigned32 3132 Reachability-Type Unsigned32 3133 Maximum-Latency Unsigned32 3134 Maximum-Latency Unsigned32 3135 Location-Information-Configuration Grouped 3136 MONTE-Location-Type Unsigned32 3137 Accuracy Unsigned32 3138 Association-Type Unsigned32 3139 Maximum-Reponse-Time Unsigned32 3139 Maximum-Reponse-Time Unsigned32 3130 Monitoring-Event-Maximum-Reponse-Time Unsigned32 3131 Maximum-Reponse-Time Unsigned32 3132 Unsigned32 Unsigned32 3133 Maximum-Reponse-Time Unsigned32 3134 Supported-Monitoring-Event-Mask Unsigned32 3134 Supported-Monitoring-Event-Config-Status Grouped 3140 Reachability-Information Unsigned32 3141 MEl-Change Unsigned32 3142 Monitoring-Event-Config-Status Grouped 3143 Supported-Monitoring-Event-Mask Unsigned32 3144 Service-Result Grouped 3145 CircFlags Unsigned32 3146 Reachability-Information Unsigned32 3147 Service-Result-Code Unsigned32 3148 Service-Result-Code Unsigned32 3149 Event-handling Unsigned32 3150 NIDD-Authorization-Response Grouped 3161 Service-Report Grouped 317 Service-Report Grouped 318 Service-Report Grouped 319 Service-Report Grouped 310 Service-Report Grouped 310 Service-Report Grouped 311 Service-Report Grouped 312 Ser			
AESE-Error-Report			
Monitoring-Event-Configuration Grouped			
3123 Monitoring-Event-Report			
3124 SCEF-Reference-ID			
SCEF-ID			
3126 SCEF-Reference-ID-for-Deletion			
13127 Monitoring-Type			
13128 Maximum-Number-of-Reports Unsigned32 UE-Reachability-Configuration Grouped			
1312 UE-Reachability-Configuration			
1313 Maximum-Detection-Time			
3131 Maximum-Detection-Time			
3132 Reachability-Type			
3133 Maximum-Latency			
3135 Location-Information-Configuration Grouped	3133 Maximum-Latency		
3136 MONTE-Location-Type Unsigned32 3137 Accuracy Unsigned32 3138 Association-Type Unsigned32 3139 Roaming-Information Unsigned32 3140 Reachability-Information Unsigned32 3141 IMEI-Change Unsigned32 3142 Monitoring-Event-Config-Status Grouped 3143 Supported-Service-Masks Grouped 3144 Supported-Service-Masks Grouped 3145 CiR-Flags Unsigned64 3146 Service-Result Grouped 3147 Service-Result-Code Unsigned32 3148 Service-Result-Code Unsigned32 3149 Event-handling Unsigned32 3150 NIDD-Authorization-Request Grouped 3151 NIDD-Authorization-Response Grouped 3152 Service-Report Grouped 3153 Node-Type Unsigned32 3165 Nobe-Type Unsigned32 3160 Absent-Subscriber-Diagnostic-T4 Enumerated 3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 3202 Trigger-Action Unsigned32 3301 SM-PP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Diagnostic-Info OctetString 3306 SM-Diagnostic-Info OctetString 3306 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32	3134 Maximum-Response-Time	Unsigned32	
3137 Accuracy	3135 Location-Information-Configuration	Grouped	
3138 Association-Type	3136 MONTE-Location-Type	Unsigned32	
3139 Roaming-Information			
3140 Reachability-Information Unsigned32 3141 IMEI-Change Unsigned32 3142 Monitoring-Event-Config-Status Grouped 3143 Supported-Service-Masks Grouped 3144 Supported-Monitoring-Event-Mask Unsigned64 3145 CIR-Flags Unsigned32 3146 Service-Result Grouped 3147 Service-Result Grouped 3148 Reference-ID-Validity-Time Time 3149 Event-handling Unsigned32 3150 NIDD-Authorization-Request Grouped 3151 NIDD-Authorization-Response Grouped 3152 Service-Report Grouped 3153 Node-Type Unsigned32 Note: The AVP codes from 3154 to 3199 are reserved for TS 29.336. 3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 3202 Trigger-Action Unsigned32 3203 MTC-Error-Diagnostic Unsigned32 Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. 3300 SC-Address OctetString 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery-Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Delivery-Timer Unsigned32 29.338 [30]			
MEI-Change			
3142 Monitoring-Event-Config-Status Grouped			
3143 Supported-Service-Masks Grouped		•	
3144 Supported-Monitoring-Event-Mask Unsigned64 3145 CIR-Flags Unsigned32 3146 Service-Result Grouped 3147 Service-Result-Code Unsigned32 3148 Reference-ID-Validity-Time Time 3149 Event-handling Unsigned32 3150 NIDD-Authorization-Request Grouped 3151 NIDD-Authorization-Response Grouped 3152 Service-Report Grouped 3153 Node-Type Unsigned32 Node-Type Unsigned32 Note: The AVP codes from 3154 to 3199 are reserved for TS 29.336. 3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 3202 Trigger-Action Unsigned32 3203 MTC-Error-Diagnostic Unsigned32 Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. 3300 SC-Address OctetString 3301 SM-RP-UI OctetString 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery-Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 29.338 [30] 3306 SM-Delivery-Timer Unsigned32 3307 3308 SM-Delivery-Timer Unsigned32 3308 3309	3142 Monitoring-Event-Config-Status		
3145 CIR-Flags	3143 Supported-Service-Masks		
3146 Service-Result Grouped			
3147 Service-Result-Code Unsigned32 3148 Reference-ID-Validity-Time Time 3149 Event-handling Unsigned32 3150 NIDD-Authorization-Request Grouped 3151 NIDD-Authorization-Response Grouped 3152 Service-Report Grouped 3153 Node-Type Unsigned32 Note: The AVP codes from 3154 to 3199 are reserved for TS 29.336. Enumerated 3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 3202 Trigger-Action Unsigned32 3203 MTC-Error-Diagnostic Unsigned32 Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. OctetString 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Dalignostic-Info OctetString 3306 SM-Delivery-Timer Unsigned3			
3148 Reference-ID-Validity-Time Time 3149 Event-handling Unsigned32 3150 NIDD-Authorization-Request Grouped 3151 NIDD-Authorization-Response Grouped 3152 Service-Report Grouped 3153 Node-Type Unsigned32 Note: The AVP codes from 3154 to 3199 are reserved for TS 29.336. Enumerated 3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 3202 Trigger-Action Unsigned32 3203 MTC-Error-Diagnostic Unsigned32 Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. OctetString 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32			
3149 Event-handling Unsigned32 3150 NIDD-Authorization-Request Grouped 3151 NIDD-Authorization-Response Grouped 3152 Service-Report Grouped 3153 Node-Type Unsigned32 Note: The AVP codes from 3154 to 3199 are reserved for TS 29.336. Enumerated 3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 3202 Trigger-Action Unsigned32 3203 MTC-Error-Diagnostic Unsigned32 Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. 3300 SC-Address OctetString 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32			
3150 NIDD-Authorization-Request Grouped 3151 NIDD-Authorization-Response Grouped 3152 Service-Report Grouped 3153 Node-Type Unsigned32 Note: The AVP codes from 3154 to 3199 are reserved for TS 29.336. Enumerated 3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 3202 Trigger-Action Unsigned32 3203 MTC-Error-Diagnostic Unsigned32 Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. 3300 SC-Address 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32			
3151 NIDD-Authorization-Response Grouped 3152 Service-Report Grouped 3153 Node-Type Unsigned32 Note: The AVP codes from 3154 to 3199 are reserved for TS 29.336. 3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 3202 Trigger-Action Unsigned32 3203 MTC-Error-Diagnostic Unsigned32 Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. 3300 SC-Address OctetString 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32 3307 Unsigned32 Unsigned32 3308 SM-Delivery-Timer Unsigned32 3309 SM-Delivery-Timer Unsigned32 3300 SM-Delivery-Timer Unsigned32 3301 SM-Delivery-Timer Unsigned32 3302 SM-Delivery-Timer Unsigned32 3303 SM-Delivery-Timer Unsigned32 3304 SM-Delivery-Timer Unsigned32 3305 SM-Delivery-Timer Unsigned32 3306 SM-Delivery-Timer Unsigned32 3307 SM-Delivery-Timer Unsigned32			
3152 Service-Report Grouped 3153 Node-Type Unsigned32 Note: The AVP codes from 3154 to 3199 are reserved for TS 29.336. Enumerated 3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 3202 Trigger-Action Unsigned32 3203 MTC-Error-Diagnostic Unsigned32 Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. OctetString 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32			
3153 Node-Type			
Note: The AVP codes from 3154 to 3199 are reserved for TS 29.336. 3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 3202 Trigger-Action Unsigned32 3203 MTC-Error-Diagnostic Unsigned32 Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. 3300 SC-Address OctetString 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32			
3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 3202 Trigger-Action Unsigned32 3203 MTC-Error-Diagnostic Unsigned32 Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. 3300 SC-Address OctetString 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32		ShaigheadZ	
3201 Absent-Subscriber-Diagnostic-T4 Enumerated 3202 Trigger-Action Unsigned32 3203 MTC-Error-Diagnostic Unsigned32 Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. 3300 SC-Address OctetString 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32		Enumerated	
3202 Trigger-Action Unsigned32 3203 MTC-Error-Diagnostic Unsigned32 Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. OctetString 3300 SC-Address OctetString 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32			
3203 MTC-Error-Diagnostic Unsigned32 Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. 3300 SC-Address OctetString 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32			29.337 [29]
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. 3300 SC-Address OctetString 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32			
3300 SC-Address OctetString 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32		<u> </u>	
3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32		OctetString	
3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32			
3303SM-Delivery- Failure-CauseGrouped3304SM-Enumerated-Delivery-Failure-CauseEnumerated3305SM-Diagnostic-InfoOctetString3306SM-Delivery-TimerUnsigned32			
3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32			20.220.00
3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32			∠y.338 [3U]
	3305 SM-Diagnostic-Info		
3307 SM-Delivery-Start-Time Time			
	3307 SM-Delivery-Start-Time	Time	

	,		
	SM-RP-MTI	Enumerated	
	SM-RP-SMEA	OctetString	
	SRR-Flags	Unsigned32	
	SM-Delivery-Not-Intended	Enumerated	
3312	MWD-Status	Unsigned32	
3313	MME-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3314	MSC-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3315	SGSN-Absent-User-Subscriber-Diagnostic SM	Unsigned32	
	SM-Delivery-Outcome	Grouped	
	MME-SM-Delivery-Outcome	Grouped	
	MSC-SM-Delivery-Outcome	Grouped	
	SGSN-SM-Delivery-Outcome	Grouped	
	IP-SM-GW-SM-Delivery-Outcome	Grouped	
	SM-Delivery-Cause	Enumerated	
	Absent-User-Diagnostic-SM	Unsigned32	
	RDR-Flags	Unsigned32	
	SMSMI-Correlation-ID	Unsigned32	
	HSS-ID	UTF8String	
	Originating-SIP-URI	UTF8String	
	Destination-SIP-URI	UTF8String	
		Unsigned32	
	OFR-Flags	Ü	
	Maximum-UE-Availability-Time	Time	
	Maximum-Retransmission-Time	Time	
	Requested-Retransmission-Time	Time	
	SMS-GMSC-Address	OctetString	
	SMS-GMSC-Alert-Event	Unsigned32	
	The AVP codes from 3334 to 3399 are reserved for TS 29.338.	1	
	reserved	-	
	Reason-Header	UTF8String	
	Instance-Id	UTF8String	
	Route-Header-Received	UTF8String	
	Route-Header-Transmitted	UTF8String	
	SM-Device-Trigger-Information	Grouped	
	MTC-IWF-Address	Address	
	SM-Device-Trigger-Indicator	Enumerated	
	SM-Sequence-Number	Unsigned32	
	SMS-Result	Unsigned32	
	VCS-Information	Grouped	
	Basic-Service-Code	Grouped	
	Bearer-Capability	OctetString	
	Teleservice	OctetString	
	ISUP-Location-Number	OctetString	
	Forwarding-Pending	Enumerated	
	ISUP-Release-Cause	Unsigned32	
	MSC-Address	OctetString	
	Network-Call-Reference-Number	OctetString	32 200 [5]
	Start-of-Charging	Time	32.299 [5]
	VLR-Number	OctetString	
	CN-Operator-Selection-Entity	Enumerated	
	ISUP-Cause-Diagnostics	OctetString	
	ISUP-Cause-Location	Unsigned32	
3424	ISUP-Cause-Value	Unsigned32	
3425	EPDG-Address	Address	
	Announcing-UE-HPLMN-Identifier	UTF8String	
	Announcing-UE-VPLMN-Identifier	UTF8String	
	Coverage-Status	Enumerated	
	Layer-2-Group-ID	OctetString	
	Monitored-PLMN-Identifier	UTF8String	
	Monitoring-UE-HPLMN-Identifier	UTF8String	
	Monitoring-UE-Identifier	UTF8String	
	Monitoring-UE-VPLMN-Identifier	UTF8String	
	ProSe-PC3-Control-Protocol-Cause	Integer32	
	ProSe-PC3-EPC-Control-Protocol-Cause	Integer32	
	Requested-PLMN-Identifier	UTF8String	
	Requestor-PLMN-Identifier	UTF8String	
		<u> </u>	

0.455	D L O(D O E d		
	Role-Of-ProSe-Function	Enumerated	
	Usage-Information-Report-Sequence-Number ProSe-3rd-Party-Application-ID	Integer32 UTF8String	
	ProSe-Direct-Communication-ID ProSe-Direct-Communication-Transmission-Data-Container	Grouped	
	ProSe-Direct-Continuincation-Transmission-Data-Container ProSe-Direct-Discovery-Model	Enumerated	
	ProSe-Event-Type	Enumerated	
	ProSe-Function-IP-Address	Address	
	ProSe-Functionality	Enumerated	
	ProSe-Group-IP-Multicast-Addresses	Address	
	ProSe-Information	Grouped	
	ProSe-Range-Class	Enumerated	
3449	ProSe-Reason-For-Cancellation	Enumerated	
3450	ProSe-Request-Timestamp	Time	
	ProSe-Role-Of-UE	Enumerated	
	ProSe-Source-IP-Address	Address	
	ProSe-UE-ID	OctetString	
	Proximity-Alert-Indication	Enumerated	
	Proximity-Alert-Timestamp	Time	
	Proximity-Cancellation-Timestamp	Time	
	ProSe-Function-PLMN-Identifier	UTF8String	
	Application-Specific-Data	OctetString	
	Coverage-Info	Grouped Grouped	
	Location-Info ProSe-Direct-Communication-Reception-Data-Container	Grouped Grouped	
	Radio-Frequency	OctetString	
	Radio-Parameter-Set-Info	Grouped	
	Radio-Parameter-Set-Values	OctetString	
	Radio-Resources-Indicator	Integer32	
	Time-First-Reception	Time	
	Time-First-Transmission	Time	
	Transmitter-Info	Grouped	
	The AVP codes from 3469 to 3499 are reserved for TS 32.299.	,	
	BMSC-Address	Address	
3501	BMSC-Port	Unsigned32	
	MBMS-Bearer-Event	Unsigned32	
	MBMS-Bearer-Event-Notification	Grouped	
	MBMS-Bearer-Request	Grouped	
	MBMS-Bearer-Response	Grouped	
	MBMS-Bearer-Result	Unsigned32	
	MBMS-Start-Time	Time	
	Radio-Frequency TMGI-Allocation-Request	Unsigned32 Grouped	29.468 [31]
	TMGI-Allocation-Response	Grouped	
	TMGI-Allocation-Result	Unsigned32	
	TMGI-Deallocation-Request	Grouped	
	TMGI-Deallocation-Response	Grouped	
	TMGI-Deallocation-Result	Unsigned32	
	TMGI-Expiry	Grouped	
	TMGI-Number	Unsigned32	
	MB2U-Security	Unsigned32	
Note:	The AVP codes from 3518 to 3599 are reserved for TS 29.468.		
	Origin-App-Layer-User-Id	UTF8String	
	Target-App-Layer-User-Id	UTF8String	
	ProSe-Function-ID	OctetString	
	ProSe-Request-Type	Unsigned32	
	PDUID	OctetString	
	Application-Data	UTF8String	00 040 [00]
	Allowed-Suffixes-Number	Unsigned32	29.343 [32]
	Monitor-Target ProSo Code Suffix Mosk	Grouped	
	ProSe-Code-Suffix-Mask Suffix-Code	Grouped OctetString	
	Suffix-Mask	OctetString	
	Banned-User-Target	Grouped	
	Metadata-Indicator	Unsigned32	
	The AVP codes from 3613 to 3699 are reserved for TS 29.343.		
	111111111111111111111111111111111111111		

2704 DraCa Cubaccintian Data	Craunad	
3701 ProSe-Subscription-Data	Grouped	
3702 ProSe-Permission	Unsigned32	
3703 ProSe-Allowed-PLMN	Grouped	
3704 ProSe-Direct-Allowed	Unsigned32	29.344 [33]
3705 UPR-Flags	Unsigned32	
3706 PNR-Flags	Unsigned32	
3707 ProSe-Initial-Location-Information	Grouped	
3708 Authorized-Discovery-Range	Unsigned32	
Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344.		
3800 Reserved		
3801 App-Layer-User-Id	UTF8String	
3802 Assistance-info	Grouped	
3803 Assistance-Info-Validity-Timer	Unsigned32	
3804 Discovery-Type	Unsigned32	
3805 Filter-Id	OctetString	
3806 MAC-Address	UTF8String	
3807 Match-Report	Grouped	
3808 Operating-Channel	Unsigned32	
3809 P2P-Features	Unsigned32	
3810 ProSe-App-Code	UTF8String	
3811 ProSe-App-Id	UTF8String	
3812 ProSe-App-Mask	UTF8String	
3813 ProSe-Discovery-Filter	Grouped	
3814 PRR-Flags	Unsigned32	
3815 ProSe-Validity-Timer	Unsigned32	
3816 Requesting-EPUID	UTF8String	
3817 Targeted-EPUID	UTF8String	
3818 Time-Window	Unsigned32	
3819 WiFi-P2P-Assistance-Info	Grouped	
3820 WLAN-Assistance-Info	Grouped	
3821 WLAN-Link-Layer-Id	OctetString	
3822 WLAN-Link-Layer-Id-List	Grouped	
3823 Location-Update-Trigger	Grouped	
3824 Location-Update-Event-Type	Unsigned32	
3825 Change-Of-Area-Type	Grouped	
3826 Location-Update-Event-Trigger	Unsigned32	
3827 Report-Cardinality	Enumerated	
3828 Minimum-Interval-Time	Unsigned32	29.345 [34]
3829 Periodic-Location-Type	Grouped	
3830 Location-Report-Interval-Time	Unsigned32	
3831 Total-Number-Of-Reports	Unsigned32	
3832 Validity-Time-Announce	Unsigned32	
3833 Validity-Time-Monitor	Unsigned32	
3834 Validity-Time-Communication	Unsigned32	
3835 ProSe-App-Code-Info	Grouped	
3836 MIC	OctetString	
3837 UTC-based-Counter	Unsigned32	
3838 ProSe-Match-Refresh-Timer	Unsigned32 Unsigned32	
3839 ProSe-Metadata-Index-Mask	Orsigned32 OctetString	
3840 App-Identifier	Grouped	
3840 App-Identifier 3841 OS-ID	OctetString	
3841 OS-ID 3842 OS-App-ID	·	
	UTF8String	
3843 Requesting-RPAUID 3844 Target-RPAUID	UTF8String UTF8String	
3844 Target-RPAUID 3845 Target-PDUID	OctetString	
3845 Target-PD0ID 3846 ProSe-Restricted-Code	OctetString	
3846 Prose-Restricted-Code 3847 Prose-Restricted-Code-Suffix-Range	OctetString	
3848 Beginning-Suffix	OctetString	
3849 Ending-Suffix	OctetString	
3849 Ending-Sumx 3850 Discovery-Entry-ID	Unsigned32	
3850 Discovery-Entry-ID 3851 Match-Timestamp	Time	
	Unsigned32	
3852 PMR-Flags 3853 ProSe-Application-Metadata	Unsigned32 UTF8String	
	Grouped	
3854 Discovery-Auth-Request 3855 Discovery-Auth-Response	Grouped	
10000 Discovery-Autr-Nesponse	Groupeu	

		T	
	Match-Request	Grouped	
	Match-Report-Info	Grouped	
	Banned-RPAUID	UTF8String	
	Banned-PDUID	OctetString	
	Code-Receiving-Security-Material	Grouped	
	Code-Sending-Security-Material	Grouped	
	DUSK	OctetString	
	DUIK	OctetString	
	DUCK	OctetString	
	MIC-Check-indicator	Unsigned32	
	Encrypted-Bitmask	OctetString	
	ProSe-App-Code-Suffix-Range	OctetString	
	The AVP codes from 3868 to 3899 are reserved for TS 29.345.		
	Reserved		
	Enhanced-Diagnostics	Grouped	
	Inter-UE-Transfer	Enumerated	
	TWAG-Address	Address	
	Announcement-Information	Grouped	
	Announcement-Identifier	Unsigned32	
	Announcement-Order	Unsigned32	
	Variable-Part	Grouped	
	Variable-Part-Order	Unsigned32	
	Variable-Part-Type	Unsigned32	
	Variable-Part-Value	UTF8String	
	Time-Indicator	Unsigned32	
	Quota-Indicator	Enumerated	
	Play-Alternative	Enumerated	
	Language	UTF8String	
	Privacy-Indicator	Enumerated	
3916	Called-Identity	UTF8String	
	Called-Identity-Change	Grouped	
	UWAN-User-Location-Info	Grouped	
	Monitoring-Event-Configuration-Activity	Integer32	32.299 [5]
	Monitoring-Event-Report-Data	Grouped	02.200 [0]
	Monitoring-Event-Information	Grouped	
	Monitoring-Event-Functionality	Integer32	
	Monitoring-Event-Report-Number	Unsigned32	
	Cellular-Network-Information	OctetString	
	Related-Change-Condition-Information	Grouped	
3926	Related-Trigger	Grouped	
	CPDT-Information	Grouped	
	NIDD-Submission	Grouped	
	Serving-Node-Identity	DiameterIdentity	
	CP-CloT-EPS-Optimisation-Indicator	Enumerated	
	SGi-PtP-Tunnelling-Method	Enumerated	
	UNI-PDU-CP-Only-Flag	Enumerated	
	APN-Rate-Control	Grouped	
	APN-Rate-Control-Downlink	Grouped	
	APN-Rate-Control-Uplink	Grouped	
	Additional-Exception-Reports	Enumerated	
	Rate-Control-Max-Message-Size	Unsigned32	
	Rate-Control-Max-Rate	Unsigned32	
	Rate-Control-Time-Unit	Unsigned32	
	The AVP codes from 3940 to 3999 are reserved for TS 32.299.		
	Aggregated-Congestion-Info	Grouped	
	Aggregated-RUCI-Report	Grouped	
	Congestion-Level-Definition	Grouped	
	Congestion-Level-Range	Unsigned32	
	Congestion-Level-Set-Id	Unsigned32	
	Congestion-Level-Value	Unsigned32	29.217 [35]
	Congestion-Location-Id	Grouped	
	Conditional-Restriction	Unsigned32	
	eNodeB-Id	OctetString	
4009	IMSI-List	OctetString	
	RCAF-Id	DiameterIdentity	

4011 Reporting-Restriction	Unsigned32	
4012 RUCI-Action	Unsigned32	-
Note: The AVP codes from 4013 to 4099 are reserved for TS 29.217.	Chaightead	
4101 Network-Congestion-Area-Report	Grouped	29.153 [37]
4102 Ns-Request-Type	Unsigned32	20.100 [01]
Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.	STIGISTICA DE	
4201 Network-Area-Info-List	OctetString	
4202 Reference-Id	OctetString	-
4203 Transfer-Request-Type	Unsigned32	1
4204 Time-Window	Grouped	1
4205 Transfer-End-Time	Time	29.154 [38]
4206 Transfer-Start-Time	Time	
4207 Transfer-Policy	Grouped	1
4208 Transfer-Policy-Id	Unsigned32	┪
4209 Number-Of-UEs	Unsigned32	┪
Note: The AVP codes from 4210 to 4299 are reserved for TS 29.154.	Chaightead	
4300 Communication-Failure-Information	Grouped	
4301 Cause-Type	Unsigned32	1
4302 S1AP-Cause	Unsigned32	┪
4303 RANAP-Cause	Unsigned32	1
4304 GMM-Cause	Unsigned32	┪
4305 SM-Cause	Unsigned32	1
4306 Number-of-UE-Per-Location-Configuration	Grouped	1
4307 Number-of-UE-Per-Location-Report	Grouped	1
4308 UE-Count	Unsigned32	1
4309 BSSGP-Cause	Unsigned32	1
4310 Serving-PLMN-Rate-Control	Grouped	29.128 [36]
4311 Uplink-Rate-Limit	Unsigned32	20.120 [00]
4312 Downlink-Rate-Limit	Unsigned32	-
4313 Extended-PCO	OctetString	1
4314 Connection-Action	Unsigned32	-
4315 Non-IP-Data	OctetString	-
4316 SCEF-Wait-Time	Time	-
4317 CMR-Flags	Unsigned32	1
4318 RRC-Cause-Counter	Grouped	-
4319 Counter-Value	Unsigned32	-
4320 RRC-Counter-Timestamp	Time	-
Note: The AVP codes from 4321 to 4399 are reserved for TS 29.128.	10	
4500 MCPTT-ID	UTF8String	
4501 Data-Identification	Grouped	†
4502 Data-Identification-Prefix	Unsigned32	1
4503 Data-Identification-Flags	Unsigned64	1
4504 DPR-Flags	Unsigned32	1
4505 DPA-Flags	Unsigned32	1
4506 DUR-Flags	Unsigned32	29.283 [39]
4507 DUA-Flags	Unsigned32	
4508 NDR-Flags	Unsigned32	†
4509 NDA-Flags	Unsigned32	1
4510 User-Data-Id	Unsigned32	1
4511 MCPTT-User-Profile-Data	Grouped	†
4512 Sequence-Number	Unsigned32	†
Note: The AVP codes from 4514 to 4599 are reserved for TS 29.283.		1

8 Experimental result codes

The Diameter answer messages must carry either Result-Code AVP or Experimental-Result AVP. The values of Result-Code AVP are controlled by IANA. The Experimental-Result AVP is a grouped AVP containing the Vendor-Id AVP and Experimental-Result-Code AVP, thus the experimental result codes are controlled in a vendor-specific manner.

8.1 3GPP specific result codes

The 3GPP specific result codes are always transferred in the Experimental-Result AVP, which has the Vendor-Id with value of 3GPP"s vendor identifier. The 3GPP specific result codes shall follow the same classification as defined for the values of Result-Code AVP in IETF RFC 3588 [9]. That means, the result codes are grouped to following ranges:

- 1xxx (Informational)
- 2xxx (Success)
- 4xxx (Transient Failures)
- 5xxx (Permanent Failures)

8.1.1 Informational

The Informational result codes shall use the values from 1001 to 1999 in the Experimental-Result-Code AVP.

Editor"s note: No informational result codes have been yet defined in 3GPP.

8.1.2 Success

The Success result codes shall use the values from 2001 to 2999 in the Experimental-Result-Code AVP. The reserved 3GPP specific Success result codes are presented in the following table.

Table 8.1.2: 3GPP specific Success result codes

Experimental	Result text	Specified in the TS
Result Code		
2001	DIAMETER_FIRST_REGISTRATION	
2002	DIAMETER_SUBSEQUENT_REGISTRATION	
2003	DIAMETER_UNREGISTERED_SERVICE	29.229 [2]
2004	DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED	
2005	Deprecated value	
Note: The Experime	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.	
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]
Note: The Experime	ental Result Codes from 2022 to 2040 are reserved for the TS 29.061	
_		29.109 [7]
Note: The Experime	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.	

8.1.3 Transient Failures

The Transient Failure result codes shall use the values from 4001 to 4999 in the Experimental-Result-Code AVP. The reserved 3GPP specific Transient Failure result codes are presented in the following table.

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS		
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]		
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS			
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.			
4121	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]		
Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061.			
	DIAMETER_PCC_BEARER_EVENT			
4142	DIAMETER_BEARER_EVENT	29.212 [19]		
	DIAMETER_AN_GW_FAILED	29.212[19]		
4144	DIAMETER_PENDING_TRANSACTION			
Note: The Experime	ntal Result Codes from 4145 to 4160 are reserved for the TS 29.212			
		32.299 [5]		
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.			
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	20 272 [24]		
4182	DIAMETER_ERROR_CAMEL_SUBSCRIPTION_PRESENT	29.272 [21]		
	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.			
	DIAMETER_ERROR_ABSENT_USER	29.173 [25]		
	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.			
4221	DIAMETER_ERROR_UNREACHABLE_USER			
4222	DIAMETER_ERROR_SUSPENDED_USER			
4223	DIAMETER_ERROR_DETACHED_USER	29.172 [24]		
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]		
4225	DIAMETER_ERROR_POSITIONING_FAILED			
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT			
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.			
	DIAMETER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	29.219 [26]		
Note: The Experime	Note: The Experimental Result Codes from 4242 to 4260 are reserved for the TS 29.219.			
4261	REQUESTED_SERVICE_TEMPORARILY_NOT_AUTHORIZED	29.214 [18]		
Note: The Experimental Result Codes from 4262 to 4280 are reserved for the TS 29.214.				

8.1.4 Permanent Failures

The Permanent Failure result codes shall use the values from 5001 to 5999 in the Experimental-Result-Code AVP. The reserved 3GPP specific Permanent Failure result codes are presented in the following table.

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER ERROR USER UNKNOWN	10
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER ERROR ROAMING NOT ALLOWED	
5005	DIAMETER ERROR IDENTITY ALREADY REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED	
5012	DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUPPORTED	
Note: The Expe	erimental Result Codes from 5013 to 5020 are reserved for the TS	
N . T . E	I.D I.O	32.299 [5]
•	erimental Result Codes from 5021 to 5040 are reserved for the TS	32.299.
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042 5043	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC RIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	2.00.004
	erimental Result Codes from 5046 to 5060 are reserved for the TS	5 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	29.209 [8],
5064	DUPLICATED_AF_SESSION	29.211 [17],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.214 [18]
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	
5067 5068	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY TEMPORARY NETWORK FAILURE	
Note: The Expe	rimental Result Codes from 5069 to 5080 are reserved for TS 29 TS 29.214.	0.209, TS 29.211
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5100	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	
5105	DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC	29.329 [4]
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	erimental Result Codes from 5109 to 5119 are reserved for the TS	S 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
Note: The Expe	erimental Result Codes from 5124 to 5139 are reserved for the TS	S 29.061.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D	29.212 [19]
5145	DIAMETER_QOS_RULE_EVENT	
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
5148	DIAMETER_ADC_RULE_EVENT	
5149	DIAMETER_ERROR_NBIFOM_NOT_AUTHORIZED	
Note: The Expe	erimental Result Codes from 5150 to 5159 are reserved for the TS	S 29.212.

5401	DIAMETER_ERROR_IMPI_UNKNOWN	
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	
Note: The Exp	perimental Result Codes from 5404 to 5419 are reserved for the TS	S 29.109.
5420	DIAMETER ERROR UNKNOWN EPS SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	
	perimental Result Codes from 5424 to 5449 are reserved for the TS	S 29 272
5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI	20.212.
0.00	ON	
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	
5452	DIAMETER ERROR RAT TYPE NOT ALLOWED	29.273 [20]
5453	DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST	
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST	2.00.070
	perimental Result Codes from 5455 to 5469 are reserved for the TS	5 29.273.
5470	DIAMETER_ERROR_SUBSESSION	00 045 [00]
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME	29.215 [22]
	NT	
	perimental Result Codes from 5472 to 5489 are reserved for the TS	S 29.215.
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET	29.173 [25]
	WORK	
	perimental Result Codes from 5491 to 5509 are reserved for the TS	S 29.173.
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI	
	TY	
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
5512	DIAMETER_ERROR_REQUESTED_RANGE_IS_NOT	
	ALLOWED	1001 200 00
5513	DIAMETER_ERROR_CONFIGURATION_EVENT_STORAGE	29.336 [28]
	_NOT_SUCCESSFUL	
5514	DIAMETER_ERROR_CONFIGURATION_EVENT_NON_EXIS	
	TANT	
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	
00.0		
Note: The Exp		5 29 336
	perimental Result Codes from 5516 to 5529 are reserved for the TS	S 29.336.
5530	perimental Result Codes from 5516 to 5529 are reserved for the TS DIAMETER_ERROR_INVALID_SME_ADDRESS	S 29.336.
5530 5531	perimental Result Codes from 5516 to 5529 are reserved for the TS DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION	S 29.336.
5530 5531 5532	perimental Result Codes from 5516 to 5529 are reserved for the TS DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL	S 29.336. 29.337 [29]
5530 5531 5532 5533	DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	
5530 5531 5532 5533 5534	DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5530 5531 5532 5533 5534 5535	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_TRIGGER_REPLACE_NOT_PENDING	29.337 [29]
5530 5531 5532 5533 5534 5535 Note: The Exp	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING perimental Result Codes from 5536 to 5549 are reserved for the Total	29.337 [29]
5530 5531 5532 5533 5534 5535 Note: The Exp	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER	29.337 [29]
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	29.337 [29]
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	29.337 [29]
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER	29.337 [29] S 29.337.
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_EQUIPMENT	29.337 [29]
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555	DIAMETER_ERROR_NORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE	29.337 [29] S 29.337.
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553	DIAMETER_ERROR_NOT_SUBSCRIBED DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SM_DELIVERY_FAILURE	29.337 [29] S 29.337.
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555	DIAMETER_ERROR_NOT_SUBSCRIBED DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED	29.337 [29] S 29.337.
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5556	DIAMETER_ERROR_NOT_SUBSCRIBED DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SM_DELIVERY_FAILURE	29.337 [29] S 29.337.
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5556 5557 5558	DIAMETER_ERROR_NOT_SUBSCRIBED DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED	29.337 [29] S 29.337. 29.338 [30]
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5556 5557 5558	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL	29.337 [29] S 29.337. 29.338 [30]
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5556 5557 5558 Note: The Exp	DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_BUSY_FOR_MT_SMS DIAMETER_ERROR_FACILITY_NOT_SUPPORTED DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL DIAMETER_ERROR_MWD_LIST_FULL DIEMETER_ERROR_MWD_LIST_FULL DETERMENT OF THE TEST OF THE T	29.337 [29] S 29.337. 29.338 [30] S 29.338. 29.219 [26]
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5556 5556 5557 5558 Note: The Exp	DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS DEXPERIMENTALINES DIAMETER_ERROR_INDEX DEXPERIMENTALINES DEXP	29.337 [29] S 29.337. 29.338 [30] S 29.338. 29.219 [26]
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5556 5556 5557 5558 Note: The Exp 570 Note: The Exp	DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_ISSER_BUSY_FOR_MT_SMS DIAMETER_ERROR_ISSER_BUSY_FOR_MT_SMS DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS DESCRIPTION OF THE TOTAL OR T	29.337 [29] S 29.337. 29.338 [30] S 29.338. 29.219 [26]
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5556 5556 5557 5558 Note: The Exp 570 Note: The Exp 5570 Note: The Exp	DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_ISSER_BUSY_FOR_MT_SMS DIAMETER_ERROR_ISSER_BUSY_FOR_MT_SMS DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS DESTINATION OF THE PROPERTY O	29.337 [29] S 29.337. 29.338 [30] S 29.338. 29.219 [26]
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5566 5557 5558 Note: The Exp 570 Note: The Exp 5570 Note: The Exp	DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_ISSER_BUSY_FOR_MT_SMS DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS DESTRUCTED SERVICE SER SERVICE SERVIC	29.337 [29] S 29.337. 29.338 [30] S 29.338. 29.219 [26]
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5556 5556 5557 5558 Note: The Exp 570 Note: The Exp 5570 Note: The Exp 5590 5591 5592 5593	DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_ISSER_BUSY_FOR_MT_SMS DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS DESCRIPTION OF THE PROOF	29.337 [29] S 29.337. 29.338 [30] S 29.338. 29.219 [26]
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5566 5557 5558 Note: The Exp 570 Note: The Exp 5570 Note: The Exp	DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_BUSER_BUSY_FOR_MT_SMS DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL DIEMETER_ERROR_UNKNOWN_POLICY_COUNTERS DESCRIPTION OF THE TOTAL OF THE TOTAL OR THE TOTAL	29.337 [29] S 29.337. 29.338 [30] S 29.338. 29.219 [26]
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5556 5557 5558 Note: The Exp 570 Note: The Exp 5570 Note: The 5590 5591 5592 5593	DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN DIAMETER_ERROR_TARGET_ALUID_UNKNOWN DIAMETER_ERROR_PFID_UNKNOWN DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE	29.337 [29] S 29.337. 29.338 [30] S 29.338. 29.219 [26] he TS 29.219.
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5556 5557 5558 Note: The Exp 5570 Note: The Exp 5570 Note: The 5590 5591 5592 5593 5594	DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS EXPERIMENTAL RESURE OF TAILURE ON THE TOP TO STANDARD OF THE TO	29.337 [29] S 29.337. 29.338 [30] S 29.338. 29.219 [26]
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5556 5557 5558 Note: The Exp 5570 Note: The Exp 5570 Source: The Exp 5590 5591 5592 5593 5594	DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SSERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS DESCRIPTION OF STANDARD	29.337 [29] S 29.337. 29.338 [30] S 29.338. 29.219 [26] he TS 29.219.
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5556 5557 5558 Note: The Exp 5570 Note: The Exp 5570 Note: The 5590 5591 5592 5593 5594	DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SSRVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MUD_LIST_FULL DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE DIAMETER_ERROR_PROSE_REQUEST_REJECT DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN DIAMETER_ERROR_REQUEST_REJECT DIAMETER_ERROR_REQUEST_REJECT DIAMETER_ERROR_REQUEST_NOR_INVALID_TARGET_S	29.337 [29] S 29.337. 29.338 [30] S 29.338. 29.219 [26] he TS 29.219.
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5556 5557 5558 Note: The Exp 5570 Note: The Exp 5570 S590 5591 5592 5593 5594	DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_BUSY_FOR_MT_SMS DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS DESEXPERIMENTAL RESIDED COUNTERS DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_S ET	29.337 [29] S 29.337. 29.338 [30] S 29.338. 29.219 [26] he TS 29.219.
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5556 5557 5558 Note: The Exp 5570 Note: The Exp 5570 S590 5591 5592 5593 5594 5595 5596 5597	DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_EQUIPMENT DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS EXPERIMENTAL RESIDER OR SERVICE ON TOUR	29.337 [29] S 29.337. 29.338 [30] S 29.338. 29.219 [26] he TS 29.219.
5530 5531 5532 5533 5534 5535 Note: The Exp 5550 5551 5552 5553 5554 5555 5556 5557 5558 Note: The Exp 5570 Note: The Exp 5570 S590 5591 5592 5593 5594	DIAMETER_ERROR_INVALID_SME_ADDRESS DIAMETER_ERROR_SC_CONGESTION DIAMETER_ERROR_SM_PROTOCOL DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING DIAMETER_ERROR_ABSENT_USER DIAMETER_ERROR_BUSY_FOR_MT_SMS DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_ILLEGAL_USER DIAMETER_ERROR_SM_DELIVERY_FAILURE DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_SERVICE_BARRED DIAMETER_ERROR_MWD_LIST_FULL DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS DESEXPERIMENTAL RESIDED COUNTERS DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_S ET	29.337 [29] S 29.337. 29.338 [30] S 29.338. 29.219 [26] he TS 29.219.

S601 DIAMETER_ERROR_TARGET_RPAUID_UNKNOWN	_		
Note: The Experimental Result Codes from 5603 to 5609 are reserved for the TS 29.343.	5601	DIAMETER_ERROR_TARGET_RPAUID_UNKNOWN	
S610 DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION 5611 DIAMETER_ERROR_PROSE_NOT_ALLOWED 5612 DIAMETER_ERROR_UE_LOCATION_UNKNOWN Note: The Experimental Result Codes from 5613 to 5629 are reserved for the TS 29.344. 5630 DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER	5602	DIAMETER_ERROR_INVALID_APPLICATION_DATA	
S611 DIAMETER_ERROR_PROSE_NOT_ALLOWED 29.344 [33] 5612 DIAMETER_ERROR_UE_LOCATION_UNKNOWN Note: The Experimental Result Codes from 5613 to 5629 are reserved for the TS 29.344. 5630 DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ERROR_SOCIATED_DISCOVERY_FILT ERROR_SOCIATED_DISCOVERY_FILT ERROR_SOCIATED_DISCOVERY_FILT ERROR_SOCIATED_DISCOVERY_FILT ERROR_SOCIATED_DISCOVERY_FILT ERROR_SOCIATED_DISCOVERY_FILT ERROR_SOCIATED_DISCOVERY_FILT ERROR_SOCIATED_DISCOVERY_FILT ERROR_SOCIATED_DISCOVERY_FILT ERROR_SOCIATED_SO	Note: The Expe	erimental Result Codes from 5603 to 5609 are reserved for the TS	\$ 29.343.
Note: The Experimental Result Codes from 5613 to 5629 are reserved for the TS 29.344. S630	5610		
Note: The Experimental Result Codes from 5613 to 5629 are reserved for the TS 29.344. 5630 DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER 5631 DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN 5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5635 DIAMETER_ERROR_PROXIMITY_REJECTED 5636 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5637 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_INVALID_TARGET_RESTRICTED_CODE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV_ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128 [36] Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]	5611	DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]
5630 DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER 5631 DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN 5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_INVALID_TARGET_RESTRICTED_CODE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	5612	DIAMETER_ERROR_UE_LOCATION_UNKNOWN	
ER 5631 DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN 5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]	Note: The Expe		S 29.344.
5631 DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN 5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5635 DIAMETER_ERROR_PROXIMITY_REJECTED 5636 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_INVALID_EPS_BEARER 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	5630		
LMN 5632 DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5637 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_INVALID_EPS_BEARER 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA_BLE Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED			
DIAMETER_ERROR_INVALID_APPLICATION_CODE 5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RAUID 5640 DIAMETER_ERROR_INVALID_TARGET_REAUID 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV_ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL_E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]	5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P	
5633 DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED 5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CODE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_INVALID_EPS_BEARER 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128 [36] Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 29.283 [39]		LMN	
5634 DIAMETER_ERROR_PROXIMITY_REJECTED 5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CODE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_INVALID_EPS_BEARER 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_INVALID_EPS_BEARER 5653 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE	
5635 DIAMETER_ERROR_NO_PROXIMITY_REQUEST 5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CODE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERVED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILABLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABLE Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	
5636 DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN 5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_INVALID_EPS_BEARER 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	5634	DIAMETER_ERROR_PROXIMITY_REJECTED	
DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_PLMN	5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	20 245 [24]
5637 DIAMETER_ERROR_PROXIMITY_CANCELLED 5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO DE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_	29.345 [34]
5638 DIAMETER_ERROR_INVALID_TARGET_PDUID 5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO DE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED		PLMN	
5639 DIAMETER_ERROR_INVALID_TARGET_RPAUID 5640 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO DE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	5637	DIAMETER_ERROR_PROXIMITY_CANCELLED	
5640 DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO DE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	5638	DIAMETER_ERROR_INVALID_TARGET_PDUID	
DE 5641 DIAMETER_ERROR_INVALID_DISCOVERY_TYPE Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	5639	DIAMETER_ERROR_INVALID_TARGET_RPAUID	
DIAMETER_ERROR_INVALID_DISCOVERY_TYPE	5640	DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO	
Note: The Experimental Result Codes from 5642 to 5649 are reserved for the TS 29.345. 5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED		DE	
5650 DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	5641	DIAMETER_ERROR_INVALID_DISCOVERY_TYPE	
ED 5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]	Note: The Expe	erimental Result Codes from 5642 to 5649 are reserved for the TS	S 29.345.
5651 DIAMETER_ERROR_INVALID_EPS_BEARER 5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]	5650	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV	
5652 DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.128 [36] 29.128 [36]			
BLE 5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]	5651	DIAMETER_ERROR_INVALID_EPS_BEARER	
5653 DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]	5652	DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA	29.128 [36]
E Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 29.283 [39]		BLE	
Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128. 5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]	5653	DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL	
5670 DIAMETER_ERROR_UNKNOWN_DATA 5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]		E	
5671 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 29.283 [39]	Note: The Expe	erimental Result Codes from 5654 to 5669 are reserved for the TS	S 29.128.
56/1 DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED 5 2	5670	DIAMETER_ERROR_UNKNOWN_DATA	20 283 [30]
Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.283.	5671	DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	23.203 [33]
	Note: The Expe	erimental Result Codes from 5672 to 5689 are reserved for the TS	S 29.283.

Annex A (informative): Assignment of the Diameter codes and identifiers in 3GPP

This annex defines the recommended assignment procedure of Diameter codes and identifiers within the 3GPP.

A.1 Application identifiers

If a working group detects it will require a new application identifier, it should contact the 3GPP TSG-CN WG 4 via a Liaison Statement. The LS shall contain the name of the Diameter application and a reference to the corresponding 3GPP TS. The 3GPP TSG-CN WG 4 will then request the application identifier from IANA. When the application identifier is received, the corresponding working group will be informed by 3GPP TSG-CN WG 4 and the table 4.1 in this specification will be updated.

According to RFC 3588 the creation of a new application should be avoided if at all possible and therefore it is recommended to use the existing application identifiers whenever possible.

A.2 Command codes

If a working group detects there is a need for a new command code(s) from the 3GPP"s range, it should contact the 3GPP TSG-CN WG 4 via an LS. The LS shall contain the reference to the 3GPP TS, which specifies the command(s). The 3GPP TSG-CN WG 4 will inform the assigned command code(s) to the corresponding working group and the table 5.1 in this specification will be updated.

It should be noted that the standard command codes allocated for 3GPP are scarce resource and getting new ones would require IETF specification work to be done. Therefore it is recommended to use the existing command codes whenever possible.

A.3 AVP codes

If a working group detects a Diameter application needs new 3GPP specific AVP codes, it should contact the 3GPP TSG-CN WG 4 via an LS. The LS shall contain the name of the Diameter application and a reference to the corresponding 3GPP TS. The 3GPP TSG-CN WG 4 will allocate a range of 100 AVP codes for the application. The range will be informed to the corresponding working group and the table 7.1 will be updated in this specification to show the reserved range. The working group can use the allocated range as a working assumption when defining the actual AVPs.

When the corresponding working group has specified the AVPs, and the specification has been approved and is under CR control, it should inform the AVPs to the 3GPP TSG-CN WG 4 via an LS. The LS should list the used AVP codes in the form of the table 7.1.

If there will be defined new AVPs for a Diameter application through the CR procedure, the assigned AVP range can be used, but the 3GPP TSG-CN WG 4 should be also informed about the new AVP codes via an LS.

Re-using of the existing AVPs is recommended, but special attention should be paid on the use of enumerated AVPs. Defining new values for an enumerated AVP should be agreed case by case with the working group responsible of the particular enumerated AVP. 3GPP TSG-CN WG 4 shall be informed via an LS about the new values assigned to the enumerated AVP.

A.4 Result codes

If a working group detects a Diameter application needs new 3GPP specific result codes, it should contact the 3GPP TSG-CN WG 4 via an LS. The LS shall contain the name of the Diameter application and a reference to the corresponding 3GPP TS. The 3GPP TSG-CN WG 4 will allocate a range of 20 result codes from each required result

code group for the application. The ranges will be informed to the corresponding working group and the tables in the chapter 8 of this specification will be updated to show the reserved ranges. The working group can use the allocated ranges as a working assumption when defining the actual result codes.

When the corresponding working group has specified the result codes, and the specification has been approved and is under CR control, it should convey the codes to the 3GPP TSG-CN WG 4 via an LS. The LS should list the used result codes in the form of the tables in chapter 8.

If there will be defined new result codes for a Diameter application through the CR procedure, the assigned result code ranges can be used, but the 3GPP TSG-CN WG 4 should be also informed about the new result codes via an LS.

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292			Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25	NP-040401			Correction of Charging application reference	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Removal of User Data Request Type AVP	6.0.0	6.1.0
2004-09	CN#25	NP-040412		1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26	NP-040579			Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12	CN#26	NP-040580		1	Reservation of command code 310	6.1.0	6.2.0
2004-12	CN#26	NP-040579		1	Addition of Gmb interface	6.1.0	6.2.0
2004-12	CN#26	NP-040600	010	2	Documenting the Reuse of the 3GPP specific application identifier	6.1.0	6.2.0
0004.40	011100	ND 040570	044		of Ro for Re on the Charging Interfaces	0.4.0	0.00
2004-12	CN#26	NP-040579			Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579		4	Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047		1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039			Allocations for Gx interface	1	
		NP-050039 NP-050039			Allocations for Gmb interface Allocations for MMS, MM10 Interface	1	
2005-06	CT#28					6.3.0	6.4.0
2005-06	C1#26	CP-050088 CP-050196		1	Gx interface allocation correction Addition of Maximum-Number-Accesses AVP	6.3.0	6.4.0
2005.00	CT#29			1	Private identities on the Cx	6.4.0	6.5.0
2005-09	01#29	CP-050440 CP-050310		1	Addition of Pr reference point to TS 29.230	0.4.0	0.5.0
	1	CP-050310 CP-050310			Error code cleanup	1	
		CP-050310			Addition of Rx ref. point and renaming of Experimental Result	ł	
		CF-050310	0036		Codes		
2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-03	CT#23	CP-050624			Addition of GBA-Type AVP	7.0.0	7.1.0
2000 12	01#30	CP-050612			Additional Gmb AVP Allocation	7.0.0	7.1.0
		CP-050612			Reservation of AVP codes for 32.299	i	
		CP-050625			Management of Sh subscriptions	i	
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
2000 00	01,101	CP-060084			User-Data in the response to Sh-Subs-Notif		1.2.0
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure	i	
2006-06	CT#32	CP-060302			S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417		3	New AVP Code	7.3.0	7.4.0
		CP-060417		_	Errors to be sent in response to Sh-Notif		
		CP-060417			Definition of specific Diameter codes for DSAI	i	
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
		CP-060562	0086		Addition of Diameter Error Code for Emergency Purposes	Ī	
		CP-060555	0087		Allocation of new AVP codes for Gmb	Ī	
		CP-060555	0089		AVP code allocations for Rf and Ro interfaces	Ī	
		CP-060566	0091		Allocation of Success Result Code Range for Gi Interface	Ī	
2007-03	CT#35	CP-070020	0093		C3 requested addition of new AVP code values to 3GPP TS 29.230	7.5.0	7.6.0
		CP-070020	0093		Allocation of new AVP code for DSAI-Tag AVP	Ī	
		CP-070020	0093		Allocation of Experimental-Result-Code AVP for Gi Interface	Ī	
2007-06	CT#36	CP-070318	0096		Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312	0098		Experimental-Result-Codes for Gmb interface		
		CP-070312	0100		Correction of Diameter AVP code allocation		
2007-09	CT#37	CP-070527	0102		Application ID for Gx protocol	7.7.0	7.8.0
2007-12	CT#38	CP-070743	0104		AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
			0105		Allocation of 3GPP specific AVP codes and Experimental Result		
					Codes for Gx protocol		
2007-12	CT#38	CP-070755	0101	4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
			0103		AVP code reservation for 32.299 in Rel-8		
2008-03	CT#39	CP-080015			Correction of reference to TS 29.140	8.0.0	8.1.0
Ī			10444	1 -	AVD and many etims for TC 22 200 in Dal 0	1	
		CP-080019			AVP code reservation for TS 32.299 in Rel-8	ļ	
		CP-080019	0107		Wildcarded Public User Identities	1	
			0107	1	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in		
		CP-080019	0107 0112		Wildcarded Public User Identities		
2008-06	CT#40	CP-080019 CP-080191	0107 0112 0113	1	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7	8.1.0	8.2.0
2008-06 2008-09	CT#40 CT#41	CP-080019 CP-080191 CP-080204 CP-080267 CP-080456	0107 0112 0113 0117 0119	1	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7 Correction on AVP code allocation reservation for TS 32.299	8.1.0 8.2.0	8.2.0 8.3.0
		CP-080019 CP-080191 CP-080204 CP-080267	0107 0112 0113 0117 0119	1	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7 Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx		
2008-09	CT#41	CP-080019 CP-080191 CP-080204 CP-080267 CP-080456	0107 0112 0113 0117 0119 0121	1 1 1	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7 Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal		

					Assignment)		
2008-09	CT#41	CP-080463			New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42	CP-080691			Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691			Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044			Update for ReadyForSM	8.4.0	8.5.0
2009-03	CT#43	CP-090044		1	Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090026			Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033			Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024			AVP codes for S9 protocol	8.4.0	8.5.0
2009-03	CT#43 CT#43	CP-090024 CP-090024			Diameter AVP Code allocation Location of Permanent Failure result code range for the S9	8.4.0 8.4.0	8.5.0 8.5.0
2009-03	C1#43	CF-090024	0140	'	application	0.4.0	0.5.0
2009-03	CT#43	CP-090024	0141		AVPs for TS 29.273	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299	0129	4	Update of the AVP Codes	8.5.0	8.6.0
		CP-090299			AVP code reservation for TS 32.299]	
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"		
			0146		Removal of Requesting Node Type from AIR]	
		CP-090299			S6b Application ID		
2009-09	CT#45	CP-090530			Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
		CP-090530			AVP code allocation for TS 29.212	<u> </u>	
		CP-090531			Update of the AVP type for the User-Id	ļ	
		CP-090531			Trace Depth per session		
2009-09	CT#45	CP-090557			AVP code range for charging	8.7.0	9.0.0
2009-12	CT#46	CP-090800		1	ICS-Flag	9.0.0	9.1.0
		CP-091032			From GMLC-Address to GMLC-Number	-	
			0160 0163	2	Session-Priority AVP Introduction of SLh application related AVPs and Experimental		
			0103	_	Result codes		
			0166		Missing AVP error codes		
		CP-090797		1	Introduction of SLg application related AVPs and Application		
					Identifier		
2010-03	CT#47	CP-100031	0158	1	Wildcarded Public Identity	9.1.0	9.2.0
		CP-100034	0168	1	Correction on AVP code allocation reservation for TS 32.299 in		
					Rel-9		
		CP-100046		1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109	_	
		CP-100046 CP-100048		1	Error codes in 29.172 for SLg AVPs in 29.272 for TADS support		
		CP-100046	0174	1	Error codes in 29.272 for Unknown MME	-	
		CP-100236		4	EPS Subcsriber State and Location Information Request		
		CP-100033			One time notification AVP allocation		
		CP-100046	0181		Addition of the LCS-QoS-Class attribute value		İ
	İ	CP-100175			Introduction of the LCS-Capabilities-Sets AVP in SLh interface		İ
2010-06	CT#48	CP-100263		1	AVP Codes for PCC	9.2.0	9.3.0
			0183		EPS state and location retrieval		
		CP-100287			SGmb Application ID		
	07	CP-100277			New APVs in S6a protocol		
2010-09	CT#49	CP-100463	0197	1	Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.0
		CP-100464	0106		interfaces AVP Codes Allocation for PCC	_	
2010-09	CT#49	CP-100465		1	SIPTO Permission Indicator	9.4.0	10.0.0
2010 00	01//40	CP-100466			Location data including only serving node address	0.4.0	10.0.0
		CP-100466			AVP for Update-Eff feature		
2010-12	CT#50	CP-100699			Enhanced SRVCC Subscriber Data	10.0.0	10.1.0
	İ	CP-100687	0201	1	Allocate codes for AVPs on eMPS		İ
		CP-100683		1	Allocate codes for AVPs on LIPA		
		CP-100688		1	Periodic TAU/RAU timer in HSS subscription		
		CP-100846		1	S6a Error Diagnostic		
2011-03	CT#51	CP-110051			PDP-Address correction	10.1.0	10.2.0
		CP-110054		0	Essential correction on the value type of the ELP Application AVPs	4	
		CP-110087			Minimization of Drive Tests (MDT)	4	
2011-06	CT#52	CP-110088 CP-110349			Relay Node Indicator AVPs Handling of RTR for Emergency Registration	10.2.0	10.3.0
ZU11-00	01#32	CP-110349 CP-110347		1	Add AVPs from QSPEC cleanup	10.2.0	10.3.0
		CP-110347			MIPv4 security parameters on the STa and S6b interfaces	1	
		CP-110380			MDT user consent		
		CP-110370			AVP Code Allocation for Pre-paging	1	
		CP-110375		1	PUR-Flags AVP	1	
2011-09	CT#53	CP-110559			AVP code alignment with 29.212	10.3.0	10.4.0
		CP-110555	0239	1	AVP code alignment with 32.299	<u>L</u>	
		CP-110554	0244	1	AVP code alignment with 29.214		
		CP-110552			Experimental Result Code Alignment with 29.061		

		CP-110555			Failure code and AVP code alignment with 29.212		
2044.00	OT#50	CP-110722			Priviledged sender	40.40	44.0.0
2011-09	CT#53	CP-110584 CP-110579		1	Add vSRVCC updates to the Diameter AVP code table AVP code alignment with 32.299	10.4.0	11.0.0
		CP-110579			AVP code anguittent with 32.299 AVP code reservation for 29.212		
2011-12	CT#54	CP-110812		1	SWx Restoration AVPs	11 0 0	11.1.0
2011 12	01/101	CP-110812			Sy and Sd Application IDs	11.0.0	
		CP-110775			New AVP codes for MBMS IP unicast encapsulation		
		CP-110775			New AVP codes for MBMS IP multicast encapsulation		
		CP-110786		1	MME-Realm AVP code allocation		
		CP-110811			Equivalent PLMN CSG Subscription Request		
	İ	CP-110781	0281	1	Restoration of Wildcarded-IMPU AVP		
2012-03	CT#55	CP-120025	0286	1	Codes Allocation for AVPs on Initial Attach	11.1.0	11.2.0
		CP-120038	0288		New AVP codes for Absolute Time of MBMS Data Transfer over SGmb		
		CP-120038	0291	1	Allocating Diameter AVP codes for TS 29.219 and TS 29.212		
2012-06	CT#56	CP-120240			Codes Allocation for AVPs on NPLI	11.2.0	11.3.0
		CP-120238	0294	1	Adding new Diameter AVPs to Diameter table to support Trusted WLAN Access feature		
	İ	CP-120225	0296	1	Trust Relationship Indication		
		CP-120251	0297	1	Corrections to reference titles		
		CP-120251			Diameter Code Allocation for TS 29.219		
		CP-120247			Network Name AVP codes		
		CP-120219	0304	-	Duplicated AVP names		
2012-09	CT#57	CP-120481	0289	3	PS additional number allocation	11.3.0	11.4.0
		CP-120473			SMS in MME/SGSN		
		CP-120461	0299	2	AAA Failure Recovery AVP codes		
		CP-120474			Transport Access Type AVP for BBAI		
		CP-120480			Local Time Zone		
		CP-120472	0308	-	Allocating Application Identifier and command code for Tsp		
	ļ				interface		
		CP-120472			Application Identifier, Command Codes and AVP range for S6m interface		
		CP-120667			GMLC-Name		
			0313		Reference list correction to align with the corrected TS 29.212 title		
2012-12	CT#58	CP-120731			T4 device triggering via IMS	11.4.0	11.5.0
		CP-120731			Codes and Identifier Allocation for T4 Specification		
		CP-120731			AVP Code Allocation for 29.336		
		CP-120731			Diameter AVP code value allocation in TS 29.368		
		CP-120732	0319	2	Application Identifier, Command Codes and AVP codes for SGd, S6c		
		CP-120716	0324	1	AVP name modification in TS 32.299		
		CP-120742			UE Time Zone AVP		
		CP-120741	0328	1	Use of Flag instead of Enumerated AVPs		
		CP-120741		-	Use of Flag instead of Enumerated AVPs		
		CP-120743	330	-	PSI direct routing with restoration procedures		
		CP-120743		-	EPS LocationInformation Support		
2013-03	CT#59	CP-130026			Diameter error code for TS 29.219	11.5.0	11.6.0
		CP-130026			MDT parameters		
2013-03	CT#59	CP-130156			New AVPs for Lgd interface	11.6.0	12.0.0
		CP-130030			Validity Time of Short Message		
2013-06	CT#60	CP-130288			Add new DER-S6b-flag AVP	12.0.0	12.1.0
		CP-130298			Failure Result Codes Allocation for TS 29.219	4	
		CP-130292			Diameter AVP codes for new TS 32.299 AVPs	4	
		CP-130279			Definition of SS Status for Call Barring	4	
	-	CP-130380			New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP	1	-
		CP-130291	U348	-	procedures over Lgd interface		
		CP-130297	03/17	1	Application Port Identifier	1	
		CP-130297			MTRR on Sh	1	
		CP-130295			Restoration Priority during SGW and PGW restoration procedures	1	
		CP-130378			SIPTO permission for Local Network enhancements	1	
2013-09	CT#61	CP-130454			New MBMS flag for eMBMS restoration	12.1.0	12.2.0
		CP-130461			AVP code reservation for TS 32.299 Rel-12	1	
		CP-130460			Allocation of Diameter codes and identifiers for 29.212 and 29.215	1	
2013-09	Ì			-	Vendor-specific command code for Trigger-Establishment-	12.2.0	12.2.1
					Request/Answer corrected		
2013-12	CT#62	CP-130624	0369	-	New AVP for optimized LCS procedure for combined MME/SGSN	12.2.1	12.3.0
		CP-130631		1	Adding E-SMLC provided Cell info and Cell Portion		
	1	CP-130800		-	New AVPs for SMS for IMS UE without MSISDN in TS 29.338	1	
		CP-130600		1	Allocation of Diameter codes for 32.299	1	
	İ	CP-130605		1-	Allocation of Diameter codes for 29.212	Ī	
		CP-130639		-	SGSN CAMEL Subscription Indication		
2014-03	CT#63	CP-140180	0381	2	Protocol enhancements for the support of device replace procedure	12.3.0	12.4.0
1		CP-140035			New AVP for the support of combined MME/SGSN	1	
		0					

		CP-140023			Definition of WLAN-related AVPs		
2014-06	CT#64	CP-140211	0385	1	Protocol enhancements to indicate support of device recall and	12.4.0	12.5.0
		CP-140251	0402	1	replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic	┨	ŀ
		CP-140257			SS-Status AVP Definition	1	ŀ
	Ì	CP-140252	0392	-	Definition of AVPs for Network Location in TWLAN	1	ŀ
		CP-140236			TWAN-BSSID AVP re-naming]	
		CP-140247			New AVPs for Trusted WLAN access	ļ	ļ
	0=::0=	CP-140231			Adding Codes for 29.214	10 - 0	
2014-09	CT#65	CP-140515 CP-140517			T-GRUU restoration MB2-C codes	12.5.0	12.6.0
	}	CP-140517 CP-140505	0404	1	New AVPs for Trusted WLAN access	1	ŀ
		CP-140506			P-CSCF Restoration indication	1	ŀ
		CP-140516			Closing TS 29.234 and reused AVP in TS 29.273	1	ŀ
		CP-140513			Identification of the HSS	1	ĺ
					Editorial: WLAN-offloadability AVP codes added as in CR C4-	1	
004440	OT#00	00.440705	0.400		141648.	40.00	40.7
2014-12	CT#66	CP-140785			New AVP for MBMS restoration	12.6.0	12.7.
			0430		New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection	1	
			0410		Reset-ID	1	
			0416		Code definitions for 32.299	1	ŀ
			0428		Removal of I-WLAN AVPs	1	ľ
			0429		Reference correction	j	j
			0433		Code allocation for 29.212]	
			0418		MDT PLMN List]	
			0422		Codes Allocation for PC2 Protocol	4	
			0423		Codes Allocation for PC4a Protoco	┨	
			0431	3	Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345		
			0434	1	Command Code and Error Code for ProSe Initial Location	1	ŀ
			0404	'	Information Retrieval		
	Ì		0425	-	Corrections of the type of some AVPs	1	İ
	ĺ		0426	1	OFR-Flags AVP code]	
			0427		P-CSCF Restoration mechanism new error		
2015-03	CT#67	CP-150015			Renaming of Location-Type AVP	12.7.0	12.8.
			0437		Location reporting in emergency 1xSRVCC	1	
			0435 0442		AVP codes for GCSE MB2-C New AVPs and range of transient failure result codes in TS 29.214	}	ŀ
			0442		Allocation of code for Authorized-Discovery-Range AVP (TS	1	
			0430	•	29.344)		
			0440	2	Location Update Trigger	1	
			0441		AVP codes allocation for Validity related AVPs for TS 29.345	1	Ì
			0443		Allocation of codes for the Integrity Checks. Aspect AVPs		
2015-03	CT#67	CP-150039			Diameter Application Identifier for Np protocol	12.8.0	
2015-06	CT#68	CP-150257			AVP code allocation for Match Refresh Timer AVP in TS 29.345	13.0.0	13.1.
		CP-150247			Wrong CR implementation of CR 0416r1	1	ŀ
		CP-150249 CP-150263			AVP code allocation for 32.299	-	ŀ
	1	CP-150263 CP-150372		-	AVP codes for Access Restriction Data per PLMN IP-SM-GW-Realm	1	}
2015-09	CT#69	CP-150372		-	Subscription data for extended buffering at the SGW	13.1.0	13.2
_3.5 00	300	CP-150442		-	Overlapping transaction over S6b	1	. 5.2.
		CP-150453			Addition of IMSI Group Id AVP definition	j	j
		CP-150449	0465	3	Addition of CP parameter AVP definition]	
		CP-150431			AVP codes for TS 29.212	1	
0045 :-	OT::==	CP-150456			AVP definition for S6t	46.5.	10.
2015-12	CT#70	CP-150761			Addition of MBMS-Cell-List AVP	13.2.0	13.3.
		CP-150778			S6t Application ID and Command Codes	4	1
	}	CP-150778 CP-150778			Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface	┨	}
		CP-150778			Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-	1	
		01 - 100770	0 70 1	Ι'	Deletion data types		
		CP-150778	0494	2	Definition of AVP for deletion of all Monitoring events assigned to a	1	
					subscriber (UE)]	[
	ļ	CP-150778			Definition of AVP SCEF-ID	ļ	[
		CP-150778			Service result per Event configuration	4	
		CP-150770			Emergency PDN connection over untrusted WLAN access	4	ļ
		CP-150776	04/6	-	EPC-MT-LR and PS-MT-LR procedure for UEs transiently not		
	}	CP-150776	0407	1	reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX	┧	1
	}	CP-150776			Mobile Terminating SMS handling for extended Idle mode DRX –	1	
		J. 100770	5.50	Ι.		ĺ	
					Additional Option		
		CP-150777	0477	3	Commands and codes for Np protocol]	

		CP-150772	0489	-	Addition of AVPs and result-codes		
		CP-150772	0500	-	Addition of AVP used in match report procedure for eProSe-Ext-CT		
İ		CP-150754	0481	1	Allowed WAF and/or WWSF Identities		ĺ
Ì	Ï	CP-150773	0482	-	Add the default access type to 3GPP specific AVP		
İ	Ì	CP-150781		1	AVP code allocation for "UE Usage Type"		
		CP-150755		-	Metadata in Match-Report		ĺ
		CP-150755		-	New Group AVP for ProSe direct discovery procedures		
Ì		CP-150771		1	Definition of AVP for AESE-CT		
ŀ		CP-150771		1	Command codes and AVP range for TS 29.154 and TS 29.153		
		CP-150776		1	AVP codes for Indoor Positioning support in SLg/Lgd		
2016-03	CT#71	CP-160041		_	Application ID for St	13.3.0	13 / 0
2010-03	01#71	CP-160041		1	Correction on TS numbers	13.3.0	13.4.0
}	l	CP-160041					l
		CP-160041			AVPs for the Rx Diameter application AVP code reservation for 32,299		
ŀ					Codes for 29.212		}
1		CP-160041					1
ļ.		CP-160029			New AVP assignment for MONTE		
		CP-160029	0509	-	Change of type of Monitoring-Duration AVP to represent an		
	ļ	OD 400005	0507		absolute time		ľ
ļ.		CP-160035		-	Remove the default access AVP		
		CP-160035		-	Specific AVP codes for NBIFOM		ļ
		CP-160030	0511	-	Alert procedure from MME/SGSN to SMS-GMSC for MT SMS to		
					UE using eDRX		ļ
ļ		CP-160037			ePDG retrieval of WLAN Location Information		ļ
ļ		CP-160033			Definition of AVP Authorization of NIDD		ļ
		CP-160033			New PDN-Type for Cellular IoT		
		CP-160036			Monitoring update and Reporting of update result		
		CP-160036	0519	3	Allocation of new Diameter Application ID and commands code for		
					PC2 protocol		
	CT#72	CP-160225			SCEF Realm	13.4.0	
2016-06	CT#72	CP-160225			Cleanup up on MONTE AVP's		13.5.0
2016-06	CT#72	CP-160228			NIDD authorisation update		13.5.0
	CT#72	CP-160228		-	IANA Command Code Registration		13.5.0
2016-06	CT#72	CP-160228			CloT new commands and Diameter error		13.5.0
2016-06	CT#72	CP-160228			Serving PLMN Rate Control	13.4.0	13.5.0
2016-06	CT#72	CP-160228	0554	2	New AVP for APN Rate Control	13.4.0	13.5.0
2016-06	CT#72	CP-160227	0523	1	IANA assigned application Id and command code values	13.4.0	13.5.0
2016-06	CT#72	CP-160227	0524	3	Allocation of AVP codes and Experimental Result codes for	13.4.0	13.5.0
					Diameter Data Management application		
2016-06	CT#72	CP-160236	0525	1	Command Codes for 29.212	13.4.0	13.5.0
	CT#72	CP-160236		-	AVP code range 3900-3999		13.5.0
2016-06	CT#72	CP-160236		1	New AVPs in TS 29.214		13.5.0
	CT#72	CP-160236		-	AVP codes for 29.212		13.5.0
2016-06	CT#72	CP-160232		2	AVP Codes for 29.343		13.5.0
2016-06	CT#72	CP-160232		1	Assignment of application ID and command code for PC2 reference		
2010 00	01,112	0. 100202	0020		point	10.1.0	10.0.0
2016-06	CT#72	CP-160232	0532	1	Addition of new AVPs for ProSe direct discovery security and open	13 4 0	13.5.0
2010 00	011112	01 100202	0002		ProSe direct discovery with application-controlled extension	10.4.0	10.0.0
2016-06	CT#72	CP-160232	0539	_	Reserved Experimental Result Codes for TS 29.343	1340	13.5.0
2016-06	CT#72	CP-160233		_	Renaming of Validity-Time AVP		13.5.0
2016-06	CT#72	CP-160233		1	New AVPs allocated for 29.153 and 29.154		13.5.0
				1			
2016-06	CT#72	CP-160231			3GPP specific AVP for NBIFOM Missing AVP codes and Experimental-Result codes for T6a		13.5.0
2016-09	CT#73	CP-160423		1			13.6.0
2016-09	CT#73	CP-160419		1	AVP codes for 32.299		13.6.0
2016-09	CT#73	CP-160419		1	AVP code for 29.214		13.6.0
2016-09	CT#73	CP-160419			AVP code for 29.212		13.6.0
2016-09	CT#73	CP-160424	05/3	1	Allocate of AVP Handling of Exception Reports in the Core Network	13.5.0	13.6.0

History

	Document history						
V13.3.0	March 2016	Publication					
V13.4.0	April 2016	Publication					
V13.5.0	August 2016	Publication					
V13.6.0	October 2016	Publication					