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Foreword

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1 Scope

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

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

[15]

[16]

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.
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Kelease as ti	ne present aocument.
[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: "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: "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".

3GPP TS 29.140 Release 6: "Multimedia Messaging Service (MMS); MM10 interface based on

3GPP TS 29.210: "Charging rule provisioning over Gx interface".

Diameter protocol; Stage 3".

[17]	3GPP TS 29.211: "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".

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]

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	20 472 [24]
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	29.212 [19]
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	29.272 [21]
8388639	Device-Action-Request/Answer	DAR/DAA	29.368 [27]
8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]
8388643	Device-Trigger-Request/Answer	DTR/DTA	29.337 [29]
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]

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]
	3GPP-WLAN-QoS-Filter-Support	OctetString	
	The AVP codes from 1 to 255 are reserved for backwards compatibites (See TS 29.061 [13] and TS 29.234 [6])	ility with 3GPP RADIUS Ve	endor Specific
	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	
	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	
Note:	The AVP codes from 320 to 399 are reserved for TS 29.234		•
	GBA-UserSecSettings	OctetString	
	Transaction-Identifier	OctetString	
	NAF-Hostname	OctetString	
	GAA-Service-Identifier Key-ExpiryTime	OctetString Time	_
405	ME-Key-Material	OctetString	
406	UICC-Key-Material	OctetString	
	GBA_U-Awareness-Indicator	Enumerated	
408	BootstrapInfoCreationTime	Time	
	GUSS-Timestamp	Time	
	GBA-Type	Enumerated	29.109 [7]
	UE-Id UE-Id-Type	OctetString Enumerated	
412	UICC-App-Label	OctetString	
414	UICC-ME	Enumerated	_
415	Requested-Key-Lifetime	Time	
416	Private-Identity-Request	Enumerated	
417	GBA-Push-Info	OctetString	
	NAF-SA-Identifier	OctetString OctetString	_
	Security-Feature-Request Security-Feature-Response	OctetString OctetString	4
	The AVP codes from 421 to 499 are reserved for TS 29.109	Octobiling	l
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	
502	Access-Network-Charging-Identifier	Grouped	
	Access-Network-Charging-Identifier-Value	OctetString	29.209 [8],
	AF-Application-Identifier	OctetString	29.211 [17],
505	AF-Charging-Identifier	OctetString	29.214 [18]
	Authorization-Token	OctetString	
507	Flow-Description	IPFilterRule	
	Flow-Grouping	Grouped	7

	<u></u>		
	Flow-Number	Unsigned32	
	Flows	Grouped	
	Flow-Status	Enumerated	
	Flow-Usage	Enumerated	
	Specific-Action	Enumerated	
	Max-Requested-Bandwidth	Unsigned32	
	Max-Requested-Bandwidth-DL	Unsigned32	
	Max-Requested-Bandwidth-UL	Unsigned32	
	Media-Component-Description	Grouped	
	Media-Component-Number	Unsigned32	
	Media-Sub-Component AVP	Grouped	
	Media-Type	Enumerated	
	RR-Bandwidth	Unsigned32	
	RS-Bandwidth RS-Bandwidth	Unsigned32	
	SIP-Forking-Indication	Enumerated	
	Codec-Data	OctetString	
	Service-URN	OctetString	
	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	
	Rx-Request-Type	Enumerated	
	Min-Requested-Bandwidth-DL	Unsigned32	
	Min-Requested-Bandwidth-UL	Unsigned32	
	Required-Access-Info	Enumerated	
	IP-Domain-Id	OctetString	
	The AVP codes from 538 to 599 are reserved for TS 29.209, TS 29.2		
	Visited-Network-Identifier	OctetString	
	Public-Identity	UTF8String	
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	
	SIP-Authorization	OctetString	
	SIP-Authentication-Context	OctetString	
	SIP-Auth-Data-Item	Grouped	
	SIP-Item-Number	Unsigned32	
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
	Reason-Info	UTF8String	29.229 [2]
	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	Enumerated	
	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
	Cupported Applications	Grouped	
	Supported-Applications		
632	Associated-Identities	Grouped	
632 633			

	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
	SCSCF-Restoration-Info	Grouped	
	Path	OctetString	
	Contact	OctetString	
	Subscription-Info	Grouped	
643	Call-ID-SIP-Header	OctetString	
644	From-SIP-Header	OctetString	
645	To-SIP-Header	OctetString	
646	Record-Route	OctetString	
647	Associated-Registered-Identities	Grouped	
	Multiple-Registration-Indication	Enumerated	
	Restoration-Info	Grouped	
650	Session-Priority	Enumerated	
	Identity-with-Emergency-Registration	Grouped	
	Priviledged-Sender-Indication	Enumerated	
	LIA-Flags	Unsigned32	
	The AVP codes from 654 to 699 are reserved for TS 29.229.	g-10-00-	
	User-Identity	Grouped	
	MSISDN	OctetString	
	User-Data	OctetString	
	Data-Reference	Enumerated	
	Service-Indication	OctetString	
	Subs-Req-Type	Enumerated	
	Requested-Domain	Enumerated	
	Current-Location	Enumerated	
	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	20 220 [4]
	One-Time-Notification		29.329 [4]
		Enumerated	
	Requested-Nodes	Unsigned32	
	Serving-Node-Indication	Enumerated	
	Repository-Data-ID	Grouped	
	Sequence-Number	Unsigned32	
	Pre-paging-Supported	Enumerated	
	Local-Time-Zone-Indication	Enumerated	
	UDR-Flags	Unsigned32	
	Call-Reference-Info	Grouped	
	Call-Reference-Number	OctetString	
	AS-Number The AVP and to from 702 to 700 are recogned for TS 20 220	OctetString	
	The AVP codes from 723 to 799 are reserved for TS 29.329.		
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
	Event-Type	Grouped	
	SIP-Method	UTF8String	
	Event	UTF8String	
	Content-Type	UTF8String	
	Content-Length	Unsigned32	
	Content-Disposition	UTF8String	
	Role-of-Node	Enumerated	
	User-Session-Id	UTF8String	
	Calling-Party-Address	UTF8String	
	Called-Party-Address	UTF8String	32.299 [5]
	Time-Stamps	Grouped	JZ.Z33 [J]
	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	
	ı		

0.40			
	SDP-Media-Component	Grouped	
	SDP-Media-Name	UTF8String	
	SDP-Media-Description	UTF8String	
846	CG-Address	Address	
847 (GGSN-Address	Address	
	Served-Party-IP-Address	Address	
	Authorized-QoS	UTF8String	
	Application-Server-Information		
		Grouped	
	Frunk-Group-Id	Grouped	
	ncoming-Trunk-Group-Id	UTF8String	
853	Outgoing-Trunk-Group-Id	UTF8String	
854 E	Bearer-Service	OctetString	
	Service-Id	UTF8String	
	Associated-URI	UTF8String	
	Charged-Party Charge Ch	UTF8String	
	PoC-Controlling-Address	UTF8String	
	PoC-Group-Name	UTF8String	
860 (Cause	Grouped	
	Cause-Code	Integer32	
	Node-Functionality	Enumerated	
	Service-Specific-Data	UTF8String	
		U	
	Originator	Enumerated	
	PS-Furnish-Charging-Information	Grouped	
	PS-Free-Format-Data	OctetString	
867 F	PS-Append-Free-Format-Data	Enumerated	
	Fime-Quota-Threshold	Unsigned32	
	/olume-Quota-Threshold	Unsigned32	
	Trigger-Type	Enumerated	
	Quota-Holding-Time	Unsigned32	
	Reporting-Reason	Enumerated	
	Service-Information	Grouped	
874 F	PS-Information	Grouped	
	VLAN-Information	Grouped	
	MS-Information	Grouped	
	MMS-Information	Grouped	
	_CS-Information	Grouped	
	PoC-Information	Grouped	
880	MBMS-Information	Grouped	
881 (Quota-Consumption-Time	Unsigned32	
882 N	Media-Initiator-Flag	Enumerated	
	PoC-Server-Role	Enumerated	
	PoC-Session-Type	Enumerated	
	Number-Of-Participants	Unsigned32	
	Originator-Address	Grouped	
	Participants-Involved	UTF8String	
888 E	Expires	Unsigned32	
	Message-Body	Grouped	
	NAG-Address	Address	
	WAG-PLMN-Id	OctetString	
	WLAN-Radio-Container	Grouped	
	NLAN-Technology	Unsigned32	
894 \	NLAN-UE-Local-IPAddress	Address	
895 F	PDG-Address	Address	
	PDG-Charging-Id	Unsigned32	
	Address-Data	UTF8String	
	Address-Data Address-Domain	Grouped	
899 /	Address-Type	Enumerated	
900		OctectString	
901 F	Required-MBMS-Bearer-Capabilities	UTF8String	
	MBMS-StartStop-Indication	Enumerated	
	MBMS-Service-Area	OctectString	29.061 [13]
	MBMS-Session-Duration	Unsigned32	20.001 [10]
904 I	001300 38 3MSSUUMU UUMUUMU	UHSIGHEG3Z	
005			
	Alternative-APN MBMS-Service-Type	UTF8String Enumerated	

14

	MDMO 00 00 L III d		
	MBMS-2G-3G-Indicator	Enumerated	
	MBMS-Session-Identity	OctetString	
909		UTF8String	
	Additional-MBMS-Trace-Info	OctetString	
911	MBMS-Time-To-Data-Transfer	Unsigned32	
912	MBMS-Session-Identity-Repetition-Number	Unsigned32	
913	MBMS-Required-QoS	UTF8String	
914	MBMS-Counting-Information	Enumerated	
	MBMS-User-Data-Mode-Indication	Enumerated	
	MBMS-GGSN-Address	UTF8String	
	MBMS-GGSN-IPv6-Address	UTF8String	
	MBMS-BMSC-SSM-IP-Address	UTF8String	
	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	
927	MBMS-GW-UDP-Port	OctetString	
	MBMS-GW-UDP-Port-Indicator	Enumerated	
	MBMS-Data-Transfer-Start	Unsigned64	
	MBMS-Data-Transfer-Stop	Unsigned64	
	The AVP codes from 929 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	
	Offline	Enumerated	
1009	Online	Enumerated	
1010	Precedence	Unsigned32	
1011	Reporting-Level	Enumerated	
	TFT-Filter	IPFilterRule	
	TFT-Packet-Filter-Information	Grouped	
	ToS-Traffic-Class	OctetString	
	QoS-Information	Grouped	
	Charging-Rule-Report	Grouped	
	PCC-Rule-Status	Enumerated	
	Bearer-Identifier	OctetString	
	Bearer-Operation	Enumerated	29.212 [19]
	Access-Network-Charging-Identifier-Gx	Grouped	r -1
	Bearer-Control-Mode	Enumerated	
	Network-Request-Support	Enumerated	
	Guaranteed-Bitrate-DL	Unsigned32	
	Guaranteed-Bitrate-UL	Unsigned32	
	IP-CAN-Type	Enumerated	
1028	QoS-Class-Identifier	Enumerated	
	QoS-Negotiation	Enumerated	
	QoS-Upgrade	Enumerated	
	Rule-Failure-Code	Enumerated	
	RAT-Type	Enumerated	
	Event-Report-Indication	Grouped	
	Allocation-Retention-Priority	Grouped	
	CoA-IP-Address	Address	
	Tunnel-Header-Filter	IPFilterRule 199	
	Tunnel-Header-Length	Unsigned32	
	Tunnel-Information	Grouped	
	CoA-Information	Grouped	
	APN-Aggregate-Max-Bitrate-DL	Unsigned32	
1041	APN-Aggregate-Max-Bitrate-UL	Unsigned32	

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1042 Revalidation-Time	Time	
1043 Rule-Activation-Time	Time	
1044 Rule-DeActivation-Time	Time	
1045 Session-Release-Cause 1046 Priority-Level	Enumerated	
	Unsigned32	
1047 Pre-emption-Capability	Enumerated	
1048 Pre-emption-Vulnerability 1049 Default-EPS-Bearer-QoS	Enumerated	
	Grouped	
1050 AN-GW-Address 1051 QoS-Rule-Install	Address	
	Grouped	
052 QoS-Rule-Remove	Grouped	
1053 QoS-Rule-Definition	Grouped	
1054 QoS-Rule-Name	OctetString	
055 QoS-Rule-Report	Grouped	
056 Security-Parameter-Index	OctetString	
1057 Flow-Label	OctetString	
1058 Flow-Information	Grouped	
059 Packet-Filter-Content	IPFilterRule	
060 Packet-Filter-Identifier	OctetString	
061 Packet-Filter-Information	Grouped	
062 Packet-Filter-Operation	Enumerated	
063 Resource-Allocation-Notification	Enumerated	
1064 Session-Linking-Indicator	Enumerated	
065 PDN-Connection-ID	OctetString	
066 Monitoring-Key	OctetString	
067 Usage-Monitoring-Information	Grouped	
068 Usage-Monitoring-Level	Enumerated	
069 Usage-Monitoring-Report	Enumerated	
1070 Usage-Monitoring-Support	Enumerated	
071 CSG-Information-Reporting	Enumerated	
072 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-Identifier	OctetString	
1078 Routing-Filter	Grouped	
1079 Routing-IP-Address	Address	
1080 Flow-Direction	Enumerated	
081 Routing-Rule-Install	Grouped	
085 Redirect-Information	Grouped	
086 Redirect- Support	Enumerated	
1087 TDF-Information	Grouped	
088 TDF-Application-Identifier	OctetString	
1089 TDF-Destination-Host	DiameterIdentity	
090 TDF-Destination-Realm	DiameterIdentity	
091 TDF-IP-address	Address	
092 ADC-Rule-Install	Grouped	
093 ADC-Rule-Remove	Grouped	
094 ADC-Rule-Definition	Grouped	
1095 ADC-Rule-Base-Name	UTF8String	
096 ADC-Rule-Name	OctetString	
1097 ADC-Rule-Report	Grouped	
098 Application-Detection-Information	Grouped	
099 PS-to-CS-Session-Continuity	Enumerated	
lote: The AVP codes from 1082 to 1084 are reserved for TS 29.212		
100 Served-User-Identity	Groupe	
101 VASP-ID	UTF8Str	
102 VAS-ID	UTF8String	
103 Trigger-Event	Enumerated	
104 Sender-Address	UTF8String	29.140 [16]
I105 Initial-Recipient-Address	Grouped	
106 Result-Recipient-Address	Grouped	
1107 Sequence-Number	Unsigned32	
1108 Recipient-Address	UTF8String	
- and International Communication	5 50mmg	

1110			
1111 Delivery-Report	1109 Routeing-Address	UTF8String	
1113 Sender-Visibility			
1114 Service-Key			
1115 Status			
1116 Status			
1117 Status-Code			
1118 Status-Text UTF8String			
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140			
1200 Domain-Name		UTF8Stillig	
1201 Recipient-Address Grouped		LITESString	
1203 JMM-Content-Type			
1203 MM-Content-Type			
1204 Type-Number			
1205 Additional-Type-Information			
1206 Content-Size Unsigned32 1207 Additional-Content-Information Grouped 1208 Addressee-Type Enumerated 1209 Priority Enumerated 1210 Message-ID UTF8String 1211 Message-Type Enumerated 1211 Message-Size Unsigned32 1213 Message-Size Unsigned32 1213 Message-Class Grouped 1214 Class-Identifier Enumerated 1215 Token-Text UTF8String 1216 Token-Text UTF8String 1217 Adaptations Enumerated 1218 Applic-ID UTF8String 1219 Aux-Applic-Info 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 GSR-Address Address Address 1229 PoC-Session-Id UTF8String 1231 LCS-Client-Dialed-By-MS UTF8String 1231 LCS-APN UTF8String 1231 LCS-Client-Dialed-By-MS UTF8String UTF8String 1231 LCS-Client-Dialed-By-MS UTF8String UTF8String 1231 LCS-Client-Dialed-By-MS UTF8String UTF8String UTF8String UTF8String UTF8String 1231 LCS-Client-Dialed-By-MS UTF8String U			
1207 Additional-Content-Information Grouped			
Addressee-Type			
Message-ID			
Message-Type			
1213 Message-Size			
1213 Message-Class Grouped			
1214 Class-Identifier			
1216 Delivery-Report-Requested			
Applic-ID UTF8String	1215 Token-Text	UTF8String	
Applic-ID UTF8String	1216 Delivery-Report-Requested		
1219	1217 Adaptations	Enumerated	
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 Unisigned32 1227 PDP-Address Address 1229 PoC-Session-Id UTF8String 1230 Deferred-Location-Even-Type UTF8String 1231 LCS-APN UTF8String 1232 LCS-Client-Dialed-By-MS UTF8String 1233 LCS-Client-Dialed-By-MS UTF8String 1234 LCS-Client-Dialed-By-MS UTF8String 1235 LCS-Client-Indicator UTF8String 1236 LCS-Data-Coding-Scheme UTF8String 1237 LCS-Requestor-Id Grouped 1238 LCS-Requestor-Id Grouped 1240 LCS-Requestor-Id-String UTF8String 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OctetString 1243 LCS-Requestor-Id-String UTF8String 1244 LCS-Client-Type Enumerated 1245 Positioning-Data UTF8String 1246 WLAN-Session-Id UTF8String 1247 PDP-Context-Type Enumerated 1248 MMBNS-Storage-Requested Enumerated 1249 Service-Specific-Info Grouped 1250 Called-Asserted-Identity UTF8String 1251 Requested-Party-Address UTF8String 1252 PoC-User-Role UTF8String 1253 PoC-User-Role UTF8String 1254 Positioning-Data UTF8String 1255 PoC-User-Role UTF8String 1256 PoC-User-Role UTF8String 1257 PoC-User-Role UTF8String 1258 PoC-User-Role UTF8String 1259 PoC-User-Role UTF8String 1250 PoC-User-Role UTF8String 1251 Requested-Party-Address UTF8String 1252 PoC-User-Role UTF8String 1253 PoC-User-Role UTF8String 1254 PoSiting-Party-Address UTF8String 1255 PoC-User-Role UTF8String 1256 PoC-User-Role UTF8String 1257 PoC-User-Role UTF8String 1258 PoC-User-Role UTF8String 1259 PoC-User-Role UTF8String 1250 PoC-User-Role UTF8String		UTF8String	
1221 DRM-Content			
1222 Read-Reply-Report-Requested Enumerated 1223 Reply-Applic-ID UTRString 1224 File-Repair-Supported Enumerated 1225 MBMS-User-Service-Type Enumerated 1226 Unit-Quota-Threshold Unsigned32 1227 PDP-Address Address 1228 SGSN-Address Address 1229 POC-Session-Id UTRString 1230 Deferred-Location-Even-Type UTRString 1231 LCS-APN UTRString 1232 LCS-Client-Id Grouped 1233 LCS-Client-Dialed-By-MS UTRString 1234 LCS-Client-External-ID UTRString 1235 LCS-Client-Name Grouped 1236 LCS-Data-Coding-Scheme UTRString 1237 LCS-Pormat-Indicator Enumerated 1238 LCS-Name-String UTRString 1239 LCS-Requestor-Id-String UTRString 1240 LCS-Requestor-Id-String UTRString 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OctetString 1243 Location-Estimate OctetString 1244 Location-Type Enumerated 1245 Positioning-Data UTRString 1246 WLAN-Session-Id UTRString 1247 PDP-Context-Type Enumerated 1248 WMBox-Storage-Requested Enumerated 1249 Service-Specific-Info Grouped 1250 Called-Asserted-Identity UTRString 1251 Requested-Party-Address UTRString 1252 PoC-User-Role Grouped 1251 Requested-Party-Address UTRString 1252 PoC-User-Role Grouped 1252 PoC-User-Role Grouped 1253 LCS-Pate-Party-Address UTRString 1254 Requested-Party-Address UTRString 1255 PoC-User-Role Grouped 1256 PoC-User-Role Grouped 1257 Grouped UTRString UTRString 1258 PoC-User-Role Grouped 1259 PoC-User-Role Grouped 1250 Grouped UTRString 1251 Requested-Party-Address UTRString 1252 PoC-User-Role Grouped 1254 Location-Party-Address UTRString 1255 PoC-User-Role Grouped 1250 Grouped UTRString UTRString 1251 Requested-Party-Address UTRString 1251 Requested-Party-Address UTRString 1251 Req		Enumerated	
1223 Reply-Applic-ID			
1224 File-Repair-Supported Enumerated 1225 MBMS-User-Service-Type Enumerated 1226 Unit-Quota-Threshold Unsigned32 1227 PDP-Address Address 1228 SGSN-Address Address 1229 PoC-Session-Id UTF8String 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-Dialed-By-MS UTF8String 1235 LCS-Client-Name Grouped 1236 LCS-Client-Name UTF8String 1237 LCS-Format-Indicator Enumerated 1238 LCS-Name-String UTF8String 1239 LCS-Requestor-Id Grouped 1240 LCS-Requestor-Id Grouped 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OctetString 1243 Location-Estimate OctetString 1244 Location-Estimate OctetString 1245 Positioning-Data UTF8String 1246 WLAN-Session-Id UTF8String 1247 PDP-Context-Type Enumerated 1248 WMBox-Storage-Requested Enumerated 1249 Service-Specific-Info Grouped 1250 Called-Asserted-Identity UTF8String 1251 Requested-Party-Address UTF8String 1252 POC-User-Role Grouped 1255 POC-User-Role Grouped 1256 POC-User-Role Grouped 1257 Grouped UTF8String 1258 POC-User-Role Grouped 1250 POC-User-Role Grouped			
1225 MBMS-User-Service-Type Enumerated 1226 Unit-Quota-Threshold Unsigned32 1227 PDP-Address Address 1228 SGSN-Address Address 1229 POC-Session-Id UTF8String 1230 Deferred-Location-Even-Type UTF8String 1231 LCS-Client-Id Grouped 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-Requestor-Id-String UTF8String 1239 LCS-Requestor-Id-String UTF8String 1240 LCS-Requestor-Id-String UTF8String 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OcteString 1243 Location-Estimate OcteString 1244 Location-Type Enumerated 1245 Positioning-Data UTF8String 1246 WLAN-Session-Id UTF8String 1247 PDP-Context-Type Enumerated 1248 Service-Specific-Info Grouped 1250 Called-Asserted-Identity UTF8String 1251 Requested-Party-Address UTF8String 1252 POC-User-Role Grouped 1255 PoC-User-Role Grouped 1256 Grouped UTF8String 1257 POC-User-Role Grouped 1258 Grouped UTF8String 1251 Requested-Party-Address UTF8String 1251 Requested-Party-Address UTF8String 1252 POC-User-Role Grouped 1250 Grouped UTF8String 1251 Requested-Party-Address UTF8String 1252 POC-User-Role Grouped			
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1227 PDP-Address			
1228 GSSN-Address Address 1229 PoC-Session-Id UTF8String 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 1239 LCS-Requestor-Id Grouped 1240 LCS-Requestor-Id-String UTF8String 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OctetString 1243 Location-Estimate OctetString 1244 Location-Estimate OctetString 1245 Positioning-Data UTF8String 1246 WLAN-Session-Id UTF8String 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 1250 Grouped Grouped Grouped 1250 PoC-User-Role Grouped Grouped 1250 PoC-User-Role Grouped Grouped Grouped Grouped 1250 PoC-User-Role Grouped Grouped Grouped Grouped Groupe			32.299 [5]
1239 PoC-Session-Id UTF8String 1231 LCS-APN UTF8String 1232 LCS-Client-Id Grouped UTF8String 1233 LCS-Client-Id Grouped UTF8String 1234 LCS-Client-Dialed-By-MS UTF8String 1234 LCS-Client-External-ID UTF8String 1235 LCS-Client-External-ID UTF8String UTF8String 1236 LCS-Data-Coding-Scheme UTF8String UTF8String 1237 LCS-Format-Indicator Enumerated 1238 LCS-Name-String UTF8String UTF8String 1239 LCS-Requestor-Id Grouped 1240 LCS-Requestor-Id-String UTF8String UTF8String 1241 LCS-Client-Type Enumerated 1242 Location-Estimate OctetString 1243 Location-Estimate OctetString 1244 Location-Type Enumerated 1245 Positioning-Data UTF8String 1246 WLAN-Session-Id UTF8String 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 UTF8String UTF8String 1252 POC-U			[-]
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 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 WLAN-Session-Id UTF8String 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			
1231 LCS-APN			
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 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 WLAN-Session-Id UTF8String 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			
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1233 F00-0361-N016-1D5	1253 PoC-User-Role-IDs	UTF8String	

4054 DaC Haar Dala into Huita		
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	
1264 Trigger	Grouped	
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	
1281 IMS-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	
	UTF8String	
11288 IMEGIA-INITIATOR-PARTV		
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1399 are reserved for TS 32 299	211 county	
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Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags	Grouped Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32	
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Second	1435 AMBR	Grouped
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	1437 CSG-Id	Unsigned32
	1438 PDN-GW-Allocation-Type	Enumerated
11 IDA-Flags	1439 Expiration-Date	
11 IDA-Flags	1440 RAT-Frequency-Selection-Priority-ID	Unsigned32
12 PUA-Flags	1441 IDA-Flags	
13 NOR-Flags	1442 PUA-Flags	
	1443 NOR-Flags	
Equipment-Status	1444 User-Id	
16 Regional-Subscription-Zone-Code		
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81 GMLC-Restriction Enumerated 82 PLMN-Client Enumerated 83 Service-Type Grouped 84 ServiceTypeldentity Unsigned32 85 MO-LR Grouped 86 Teleservice-List Grouped 87 TS-Code Enumerated 88 Call-Barring-Info Grouped 39 SGSN-Number OctetString 90 IDR-Flags Unsigned32 91 ICS-Indicator Enumerated 92 IMS-Voice-Over-PS-Sessions-Supported Enumerated	478 Notification-To-UE-User	Enumerated
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AS IMOTOGRAPHOUS - SUPPORT-OF-IN/IS-MOICO-UMOR-PS-SASSIONS I ENUMARATED	1478 Notification-To-UE-User 1479 External-Client 1480 Client-Identity 1481 GMLC-Restriction 1482 PLMN-Client 1483 Service-Type 1484 ServiceTypeIdentity 1485 MO-LR 1486 Teleservice-List 1487 TS-Code 1488 Call-Barring-Info 1489 SGSN-Number 1490 IDR-Flags 1491 ICS-Indicator	Enumerated Grouped OctetString Enumerated Enumerated Grouped Unsigned32 Grouped Grouped Enumerated Grouped OctetString Unsigned32 Enumerated
25 Fromogeneous-outport-or-into-voice-over-ro-dessions Enumerated	1478 Notification-To-UE-User 1479 External-Client 1480 Client-Identity 1481 GMLC-Restriction 1482 PLMN-Client 1483 Service-Type 1484 ServiceTypeIdentity 1485 MO-LR 1486 Teleservice-List 1487 TS-Code 1488 Call-Barring-Info 1489 SGSN-Number 1490 IDR-Flags 1491 ICS-Indicator 1492 IMS-Voice-Over-PS-Sessions-Supported	Enumerated Grouped OctetString Enumerated Enumerated Grouped Unsigned32 Grouped Grouped Enumerated Grouped Unsigned32 Enumerated Enumerated Grouped Enumerated Grouped OctetString Unsigned32 Enumerated 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	
	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	
	MIP-FA-RK	OctetString	
1507	MIP-FA-RK-SPI	Unsigned32	
1508	PPR-Flags	Unsigned32	
	WLAN-Identifier	Grouped	
	TWAN-Access-Info	Grouped	
	Access-Authorization-Flags	Unsigned32	
	TWAN-Default-APN-Context-Id	Unsigned32	00 070 [00]
	Reserved	-	29.273 [20]
	Reserved	-	
	Reserved	-	
	Full-Network-Name	OctetString	
	Short-Network-Name	OctetString	
	AAA-Failure-Indication	Unsigned32	
	Transport-Access-Type	Enumerated	
	DER-Flags	Unsigned32	
	DEA-Flags	Unsigned32	
	RAR-Flags	Unsigned32	
	DER-S6b-Flags	Unsigned32	
	SSID	UTF8String	
1525			
	HESSID	UTF8String	
Note:	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273	UTF8String	
Note: 1600	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information	UTF8String Grouped	
Note: 1600 1601	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information	UTF8String Grouped Grouped	
Note: 1600 1601 1602	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity	UTF8String Grouped Grouped OctetString	
Note: 1600 1601 1602 1603	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity	Grouped Grouped OctetString OctetString	
Note: 1600 1601 1602 1603 1604	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity	Grouped Grouped OctetString OctetString OctetString	
Note: 1600 1601 1602 1603 1604 1605	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity	Grouped Grouped OctetString OctetString OctetString OctetString OctetString	
Note: 1600 1601 1602 1603 1604 1605 1606	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity	Grouped Grouped OctetString OctetString OctetString	
Note: 1600 1601 1602 1603 1604 1605 1606	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity	Grouped Grouped OctetString	
Note: 1600 1601 1602 1603 1604 1605 1606 1607	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information	Grouped Grouped OctetString	
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity	Grouped Grouped OctetString	
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved	Grouped Grouped OctetString Enumerated	
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information	Grouped Grouped OctetString Unsigned32	
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN	Grouped Grouped OctetString Unsigned32 Grouped	
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission	Grouped Grouped OctetString Unsigned32	
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated	29.272 [21]
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated	29.272 [21]
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated	29.272 [21]
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 1616	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated	29.272 [21]
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 1616 1617 1618	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated	29.272 [21]
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 1616 1617 1618	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32	29.272 [21]
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 OctetString	29.272 [21]
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 OctetString Address	29.272 [21]
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 CotetString Address Grouped	29.272 [21]
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 1622 1623	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration Job-Type	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 OctetString Address Grouped Enumerated	29.272 [21]
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 1622 1623 1624	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration Job-Type Area-Scope	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 OctetString Address Grouped Enumerated Grouped	29.272 [21]
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1620 1621 1622 1623 1624 1625	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration Job-Type Area-Scope List-Of-Measurements	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated Unsigned32 OctetString Address Grouped Enumerated Grouped Unsigned32	29.272 [21]
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1620 1621 1622 1623 1624 1625 1626	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration Job-Type Area-Scope List-Of-Measurements Reporting-Trigger	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 OctetString Address Grouped Enumerated Unsigned32 OctetString Address Grouped Unsigned32 Unsigned32	29.272 [21]
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1620 1621 1622 1623 1624 1625 1626 1627	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration Job-Type Area-Scope List-Of-Measurements Report-Interval	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 OctetString Address Grouped Enumerated Unsigned32 OctetString Address Grouped Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated	29.272 [21]
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1620 1621 1622 1623 1624 1625 1626 1627 1628	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration Job-Type Area-Scope List-Of-Measurements Report-Interval Report-Amount	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 OctetString Address Grouped Enumerated Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated	29.272 [21]
Note: 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629	HESSID The AVP codes from 1526 to 1599 are reserved for TS 29.273 MME-Location-Information SGSN-Location-Information E-UTRAN-Cell-Global-Identity Tracking-Area-Identity Cell-Global-Identity Routing-Area-Identity Location-Area-Identity Service-Area-Identity Geographical-Information Geodetic-Information Current-Location-Retrieved Age-Of-Location-Information Active-APN SIPTO-Permission Error-Diagnostic UE-SRVCC-Capability MPS-Priority VPLMN-LIPA-Allowed LIPA-Permission Subscribed-Periodic-RAU-TAU-Timer Ext-PDP-Type Ext-PDP-Address MDT-Configuration Job-Type Area-Scope List-Of-Measurements Report-Interval	Grouped Grouped OctetString Enumerated Unsigned32 Grouped Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 OctetString Address Grouped Enumerated Unsigned32 OctetString Address Grouped Enumerated Enumerated Enumerated Enumerated Enumerated	29.272 [21]

1631 Logging-Interval	Enumerated	
1632 Logging-Duration	Enumerated	
1633 Relay-Node-Indicator	Enumerated	
1634 MDT-User-Consent	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	
	Integer32	
17667 JEVENT- INTESNOID-EVENT-1E		
1661 Event-Threshold-Event-1F		
1662 Event-Threshold-Event-1I	Integer32	
1662 Event-Threshold-Event-1I1663 Restoration-Priority		
1662 Event-Threshold-Event-1I1663 Restoration-Priority1664 Reserved	Integer32	
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved	Integer32	
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272.	Integer32 Unsigned32 - -	
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information	Integer32 Unsigned32 Grouped	
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme	Integer32 Unsigned32 Grouped Integer32	
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface	Integer32 Unsigned32 Grouped Integer32 Grouped	
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String	
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String	
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String	
1662 Event-Threshold-Event-11 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated	
1662 Event-Threshold-Event-11 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated	
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address	
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped	
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address	
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated	
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time	
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString	
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time	32.299 [5]
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString	32.299 [5]
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status	Integer32 Unsigned32	32.299 [5]
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header	Integer32 Unsigned32	32.299 [5]
1662 Event-Threshold-Event-1I 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString OctetString	32.299 [5]
1662 Event-Threshold-Event-11 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString OctetString Enumerated Address Address Address Address	32.299 [5]
1662 Event-Threshold-Event-11 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString OctetString Enumerated Address Unsigned32	32.299 [5]
1662 Event-Threshold-Event-11 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication	Integer32 Unsigned32	32.299 [5]
1662 Event-Threshold-Event-11 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2007 SM-Message-Type 2009 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 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	Integer32 Unsigned32	32.299 [5]
1662 Event-Threshold-Event-11 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information	Integer32 Unsigned32	32.299 [5]
1662Event-Threshold-Event-111663Restoration-Priority1664Reserved1665ReservedNote: The AVP codes from 1666 to 1699 are reserved for TS 29.272.2000SMS-Information2001Data-Coding-Scheme2002Destination-Interface2003Interface-Id2004Interface-Port2005Interface-Text2006Interface-Type2007SM-Message-Type2008Originating-SCCP-Address2009Originator-Interface2010Recipient-SCCP-Address2011Reply-Path-Requested2012SM-Discharge-Time2013SM-Protocol-ID2014SM-Status2015SM-User-Data-Header2016SMS-Node2017SMSC-Address2018Client-Address2019Number-of-Messages-Sent2020Low-Balance-Indication2021Remaining-Balance2022Refund-Information2023Carrier-Select-Routing-Information	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString Enumerated Address Enumerated Address Enumerated OctetString OctetString Enumerated Address Address Address Unsigned32 Enumerated Grouped OctetString UTF8String	32.299 [5]
1662 Event-Threshold-Event-11 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Origination-Interface 2010 Recipient-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 2015 SM-User-Data-Header 2016 SMS-Node 2017 SMSC-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString Enumerated Address Address Address Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String	32.299 [5]
1662 Event-Threshold-Event-11 1663 Restoration-Priority 1664 Reserved 1665 Reserved 1665 Reserved 1665 Reserved 1665 Reserved 1666 Reserved	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString Enumerated Address Enumerated Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String Enumerated	32.299 [5]
1662 Event-Threshold-Event-11 1663 Restoration-Priority 1664 Reserved 1665 Reserved Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272. 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface 2003 Interface-Id 2004 Interface-Port 2005 Interface-Text 2006 Interface-Type 2007 SM-Message-Type 2008 Originating-SCCP-Address 2009 Originator-Interface 2010 Recipient-SCCP-Address 2011 Reply-Path-Requested 2012 SM-Discharge-Time 2013 SM-Protocol-ID 2014 SM-Status 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 Recipient-Info	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString Enumerated Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String UTF8String Enumerated Grouped	32.299 [5]
1662 Event-Threshold-Event-11 1663 Restoration-Priority 1664 Reserved 1665 Reserved 1665 Reserved 1665 Reserved 1665 Reserved 1666 Reserved	Integer32 Unsigned32 Grouped Integer32 Grouped UTF8String UTF8String UTF8String Enumerated Enumerated Address Grouped Address Enumerated Time OctetString OctetString Enumerated Address Enumerated Time OctetString OctetString OctetString Enumerated Address Enumerated Address Unsigned32 Enumerated Grouped OctetString UTF8String UTF8String UTF8String Enumerated	32.299 [5]

2020 SM Sarvice Type	Enumerated	
2029 SM-Service-Type 2030 MMTel-Information		
2031 MMTel-Sservice-Type	Grouped Unsigned32	
2032 Service-Mode	Unsigned32	
2032 Service-wode 2033 Subscriber-Role	Enumerated	
2034 Number-Of-Diversions 2035 Associated-Party-Address	Unsigned32 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	
2067 SGW-Address	Address	
2068 Dynamic-Address-Flag-Extension	Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299	Lituitierateu	
2100 reserved		
2101 Application-Server-ID	- UTF8String	
	Enumerated	
2102 Application-Service-Type		
2103 Application-Session-ID	Unsigned32	
2104 Delivery-Status	UTF8String	
2105 reserved	-	
2106 reserved	-	
2107 reserved	-	
2108 reserved	-	00
2109 reserved		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	20 245 [22]
2202 Subsession-Id	Unsigned32	29.215 [22]
2203 Subsession-Operation	Enumerated	
1		

2205 Ust-Local-PN-6-Prefix OctetString Enumerated	2204 Multiple-BBERF-Action	Enumerated	
Description			
DiameterIdentity			
Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215			
2301 SIP-Request-Timestamp-Fraction	Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215		
2302 SIP-Response-Timestamp-Fraction	2300 reserved	-	
2303 Olune-Charging-Flag	2301 SIP-Request-Timestamp-Fraction	Unsigned32	
2304 CUG-Information	2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2305 Real-Time-Tarift-Information	2303 Online-Charging-Flag	Enumerated	
2306 Earlif-MML	2304 CUG-Information	OctetString	
2307 MBMS GW-Address	2305 Real-Time-Tariff-Information		
	2306 Tariff-XML	UTF8String	
2309 Account-Expiration Enumerated 2310 AoC-Format Enumerated 2311 AoC-Service Enumerated 2312 AoC-Service-Obligatory-Type Grouped 2313 AoC-Service-Type Enumerated 2314 AoC-Service-Type Enumerated 2315 Freferred-AoC-Currency Unsigned32 2316 Reserved Unsigned32 2316 Reserved Enumerated 2317 CSG-Access-Mode Enumerated 2318 CSG-Membership-Indication Enumerated 2319 User-CSG-Information Grouped 2319 User-CSG-Information Grouped 2319 User-CSG-Information UTF85tring 2321 Initial-IMS-Charging-Identifier UTF85tring 2400 LMSI OctetString 2401 Serving-Node Grouped 2402 UME-Name DiameterIdentity 2403 IMSC-Number OctetString 2404 CS-Capabilities-Sets Unsigned32 2405 Address Address Address 2406 Address Address Address 2407 PRR-Address Address 2408 Address Address 2408 Address Address 2409 Address Address 2400 LCS-Ep-Client-Name Grouped 2501 LCS-Ep-Client-Name Grouped 2502 LCS-Ep-Client-Name Grouped 2503 LCS-Priority Unsigned32 2504 LCS-CoS Grouped 2505 Horizontal-Accuracy Unsigned32 2506 Vertical-Accuracy Unsigned32 2507 Vertical-Accuracy Unsigned32 2508 Vertical-Accuracy Unsigned32 2509 Vertical-Accuracy Unsigned32 2510 Vectority-Estimate OctetString 2511 LCS-Codeword UTF85tring 2521 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Non-Session	2307 MBMS GW-Address		
2310 AoC-Format Enumerated 23211 AoC-Service Enumerated 2312 AoC-Service Enumerated 2312 AoC-Service-Obligatory-Type Grouped 2313 AoC-Service-Type Enumerated 2314 AoC-Service-Type Enumerated 2314 AoC-Subscription-Information Grouped 2315 Preferred-AoC-Currency Unsigned32 2316 Reserved -	2308 IMSI-Unauthenticated-Flag		
32.299 5	2309 Account-Expiration		
AoC-Service-Obligatory-Type		Enumerated	
2313 AoC-Service-Type			32.299 [5]
2314 AoC-Subscription-Information			
2315 Preferred-AoC-Currency Unsigned32 2316 Reserved Enumerated 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 2320 Cesting Enumerated 2321 Serving-Node Grouped 2400 LMS OctetString 2401 Serving-Node Grouped 2402 MME-Name DiameterIdentity 2403 MSC-Number OctetString 2404 LCS-Capabilities-Sets Unsigned32 2405 GMLC-Address Address 2406 Additional-Serving-Node Grouped 2407 PPR-Address Address 2408 Address Address 2408 Address DiameterIdentity 2501 LCS-Esp-Gleint-Name Grouped 2502 LCS-PRo-Cleint-Name Grouped 2503 LCS-PRo-Cleint-Name Grouped 2504 LCS-Requestor-Name Grouped 2505 LCS-Priority Unsigned32 2506 Vertical-Accuracy Unsigned32 2507 Vertical-Requested Enumerated 2508 Vertical-Requested Enumerated 2509 Vertical-Requested Enumerated 2509 Vertical-Requested Enumerated 2500 LCS-Shapes Unsigned32 2511 LCS-Codeword UTF8String 2512 LCS-Privacy-Check Enumerated 2513 Accuracy-Fulfilment-Indicator Enumerated 2514 Age-Of-Location-Estimate Unsigned32 2515 Velocity-Estimate OctetString 2516 EUTRAN-Positioning-Data OctetString 2517 ECG OctetString 2518 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Session Grouped			
2316 Reserved			
2317 CSG-Access-Mode	2315 Preferred-AoC-Currency	Unsigned32	
2318 CSG-Membership-Indication Enumerated	2316 Reserved	-	
User-CSG-Information			
Outgoing-Session-Id			
Initial-IMS-Charging-Identifier UTF8String Enumerated			
Moste: The AVP codes from 2323 to 2399 are reserved for TS 32.299			
Note: The AVP codes from 2323 to 2399 are reserved for TS 32.299		Ŭ	
2400 LMS OctetString Grouped		Enumerated	
		0.1.101	
MME-Name			
2403 MSC-Number OctetString 2404 LCS-Capabilities-Sets Unsigned32 2405 GMLC-Address Address 2406 Additional-Serving-Node Grouped 2407 PPR-Address Address 2408 MME-Realm DiameterIdentity Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 Enumerated 2501 Location-Type Enumerated 2502 LCS-EPS-Client-Name Grouped 2503 LCS-Priority Unsigned32 2504 LCS-QoS Grouped 2505 LCS-Priority Unsigned32 2506 Vertical-Accuracy Unsigned32 2507 Vertical-Requested Enumerated 2508 Velocity-Requested Enumerated 2509 Verponse-Time Enumerated 2509 Response-Time Enumerated 2510 Supported-GAD-Shapes Unsigned32 2511 LCS-Privacy-Check Enumerated 2512 LCS-Privacy-Fulsiliment-Indicator <t< td=""><td></td><td></td><td></td></t<>			
2404 LCS-Capabilities-Sets Unsigned32 29.173 [25]			
2405 GMLC-Address Address 2406 Additional-Serving-Node Grouped 2407 PPR-Address Address 2408 MME-Realm DiameterIdentity Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 Enumerated 2501 LcS-EpS-Client-Name Grouped 2502 LCS-Requestor-Name Grouped 2503 LCS-Priority Unsigned32 2504 Horizontal-Accuracy Unsigned32 2505 Horizontal-Accuracy Unsigned32 2507 Vertical-Requested Enumerated 2509 Response-Time Enumerated 2501 Supported-GAD-Shapes Unsigned32 2511 LCS-Codeword UTF8String 2512 LCS-Privacy-Check Enumerated 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 2521 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Session Grouped			00 470 [05]
2406 Additional-Serving-Node Grouped 2407 PPR-Address Address 2408 MME-Realm DiameterIdentity Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 Enumerated 2500 Location-Type Enumerated 2501 LCS-EPS-Client-Name Grouped 2502 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 2500 Unsigned32 2511 2511 LCS-Codeword UTF85tring 2512 LCS-Privacy-Check Enumerated 2513 Accuracy-Fulfilment-Indicator Enumerated 2514 Age-Of-Location-Estimate OctetString 2515 Velocity-Estimate OctetString 2516 EUTRAN-Positioning-Data			29.173 [25]
2407 PPR-Address Address 2408 MME-Realm DiameterIdentity Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173 Enumerated 2500 Location-Type Enumerated 2501 LCS-EPS-Client-Name Grouped 2502 LCS-PS-Client-Name Grouped 2503 LCS-Priority Unsigned32 2504 LCS-QoS Grouped 2505 Horizontal-Accuracy Unsigned32 2506 Vertical-Requested Enumerated 2508 Velocity-Requested Enumerated 2509 Response-Time Enumerated 2509 Response-Time Enumerated 2510 Supported-GAD-Shapes Unsigned32 2511 LCS-Codeword UTF8String 2512 LCS-Privacy-Check Enumerated 2513 Accuracy-Fulfilment-Indicator Enumerated 2514 Age-Of-Location-Estimate OctetString 2515 Velocity-Estimate OctetString 2517 ECGI <td< td=""><td></td><td></td><td></td></td<>			
DiameterIdentity			
Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173			
2500 Location-Type		Diameteridentity	
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 2513 Accuracy-Fulfilment-Indicator Enumerated 2514 Age-Of-Location-Estimate Unsigned32 2515 Velocity-Estimate OctetString 2516 EUTRAN-Positioning-Data OctetString 2517 ECG OctetString 2518 Location-Event Enumerated 2520 LCS-Privacy-Check-Non-Session Grouped 2521 LCS-Privacy-Check-Session Grouped 2522 LCS-Privacy-Check-Session Enumerated 2523 LCS-QoS-Class Enumerated 2524 LCS-Privacy-Check-Session Grouped 2525 LCS-OoS-Class Enumerated 2526 Enumerated Enumerated 2527 LCS-Privacy-Check-Session Grouped 2528 LCS-QoS-Class Enumerated 2529 LCS-Privacy-Check-Session Enumerated 2520 LCS-Privacy-Check-Session Enumerated 2520 LCS-Privacy-Check-Session Grouped 2521 LCS-Privacy-Check-Session Enumerated 2522 LCS-Privacy-Check-Session Enumerated 2523 LCS-QoS-Class Enumerated 2524 LCS-Privacy-Check-Session Enumerated 2525 LCS-Privacy-Check-Session Enumerated 2526 LCS-Privacy-Check-Session Enumerated 2527 LCS-Privacy-Check-Session Enumerated 2528 LCS-Privacy-Check-Session Enumerated 2529 LCS-Privacy-Check-Session Enumerated 2520 LCS-Privacy-Check-Session Enumerated 2521 LCS-Privacy-Check-Session Enumerated 2522 LCS-Privacy-Check-Session Enumerated 2523 LCS-QoS-Class Enumerated		Enumerated	
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 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 2520 LCS-Service-Type-ID Unsigned32 2521 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Session Grouped 2523 LCS-QoS-Class <td></td> <td></td> <td></td>			
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 2513 Accuracy-Fulfilment-Indicator Enumerated 2514 Age-Of-Location-Estimate Unsigned32 2515 Velocity-Estimate OctetString 2516 EUTRAN-Positioning-Data OctetString 2517 ECGI OctetString 2519 Pseudonym-Indicator Enumerated 2519 Pseudonym-Indicator Enumerated 2520 LCS-Service-Type-ID Unsigned32 2521 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Session Grouped 2523 LCS-QoS-Class Enumerated			
Unsigned32 Unsigned32 Unsigned32			
2506 Vertical-Accuracy 2507 Vertical-Requested 2508 Velocity-Requested 2509 Response-Time 2510 Supported-GAD-Shapes 2511 LCS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2510 Supported-GAD-Shapes 2511 CS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 Enumerated 2525 Enumerated 2526 Enumerated 2527 Enumerated 2528 Enumerated			
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 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 2521 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Session Grouped 2523 LCS-QoS-Class Enumerated		Ŭ	
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2510 Supported-GAD-Shapes 2511 LCS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2510 CS-Service-Type-ID 2520 LCS-Privacy-Check-Non-Session 2521 LCS-Privacy-Check-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2521 LCS-QoS-Class 2521 LCS-Privacy-Check-Session 2522 LCS-Privacy-Check-Session 2524 LCS-Privacy-Check-Session 2527 Enumerated 2528 Enumerated	2509 Response-Time		
2511 LCS-Codeword 2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 LCS-QoS-Class 2527 Enumerated 2529 Enumerated 2520 LCS-Privacy-Check-Session 2520 LCS-Privacy-Check-Session 2521 Enumerated 2522 Enumerated 2523 Enumerated	2510 Supported-GAD-Shapes		
2512 LCS-Privacy-Check Enumerated 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 2519 Pseudonym-Indicator Enumerated 2520 LCS-Service-Type-ID Unsigned32 2521 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Session Grouped 2523 LCS-QoS-Class Enumerated	2511 LCS-Codeword		00 470 50 41
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 2510 LCS-Service-Type-ID Unsigned32 2521 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Session Grouped 2523 LCS-QoS-Class Enumerated	2512 LCS-Privacy-Check		29.172 [24]
2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class Unsigned32 Unsigned32 Grouped Grouped	2513 Accuracy-Fulfilment-Indicator	•	
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 2521 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Session Grouped 2523 LCS-QoS-Class Enumerated	2514 Age-Of-Location-Estimate	Unsigned32	
2517 ECGI OctetString 2518 Location-Event Enumerated 2519 Pseudonym-Indicator Enumerated 2520 LCS-Service-Type-ID Unsigned32 2521 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Session Grouped 2523 LCS-QoS-Class Enumerated	2515 Velocity-Estimate	OctetString	
2518 Location-Event Enumerated 2519 Pseudonym-Indicator Enumerated 2520 LCS-Service-Type-ID Unsigned32 2521 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Session Grouped 2523 LCS-QoS-Class Enumerated	2516 EUTRAN-Positioning-Data		
2519Pseudonym-IndicatorEnumerated2520LCS-Service-Type-IDUnsigned322521LCS-Privacy-Check-Non-SessionGrouped2522LCS-Privacy-Check-SessionGrouped2523LCS-QoS-ClassEnumerated	2517 ECGI		
2520LCS-Service-Type-IDUnsigned322521LCS-Privacy-Check-Non-SessionGrouped2522LCS-Privacy-Check-SessionGrouped2523LCS-QoS-ClassEnumerated	2518 Location-Event	Enumerated	
2521LCS-Privacy-Check-Non-SessionGrouped2522LCS-Privacy-Check-SessionGrouped2523LCS-QoS-ClassEnumerated	2519 Pseudonym-Indicator		
2522 LCS-Privacy-Check-Session Grouped 2523 LCS-QoS-Class Enumerated	2520 LCS-Service-Type-ID		
2523 LCS-QoS-Class Enumerated	2521 LCS-Privacy-Check-Non-Session		
	2522 LCS-Privacy-Check-Session		
Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172	2523 LCS-QoS-Class	Enumerated	
	Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172		

2600 reserved	-	
2601 IMS-Application-Reference-Identifier	UTF8String	
2602 Low-Priority-Indicator	Enumerated	00 000 [5]
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		
2700 Not allocated	-	
2701 Transit-IOI-List	UTF8String	
2702 Status	Enumerated	
2703 NNI-Information	Grouped	
2704 NNI-Type	Enumerated	
2705 Neighbour-Node-Address	Address	
2706 Relationship-Mode	Enumerated	
2707 Session-Direction	Enumerated	
2708 From-Address	UTF8String	32.299 [5]
2709 Access-Transfer-Information Access-Transfer-Type	Grouped	
2710 Access-Transfer-Type	Enumerated	
2711 Related-IMS-Charging-Identifier	UTF8String	
2712 Related-IMS-Charging-Identifier-Node	Address	
2713 IMS-Visited-Network-Identifier	UTF8String	
2714 TWAN-User-Location-Info	Grouped	
2715 Reserved		
2716 BSSID	UTF8String	
Note: The AVP codes from 2717 to 2799 are reserved for TS 32.299		
2800 Reserved	-	
2801 ADC-Revalidation-Time	Time	
2802 TDF-Application-Instance-Identifier	OctetString	
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	20 242 [40]
2808 CS-Service-QoS-Request-Operation	Enumerated	29.212 [19]
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	Enumerated	
2815 CS-Service-Resource-Result-Operation	Enumerated	
Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212		
2900 reserved	-	
2901 Policy-Counter-Identifier	Grouped	
2902 Policy-Counter-Status	UTF8String	29.219 [26]
2903 Policy-Counter-Status-Report	Grouped	
2904 SL-Request-Type	Enumerated	
Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219		<u> </u>
3000 reserved	-	
3001 Device-Action	Grouped	
3002 Device-Notification	Grouped	
3003 Trigger-Data	Grouped	
3004 Payload	OctetString	
3005 Action-Type	Enumerated	29.368 [27]
3006 Priority-Indication	Enumerated	29.000 [21]
3007 Reference-Number	Unsigned32	
3008 Request-Status	Enumerated	
3009 Delivery-Outcome	Enumerated	
3010 Application-Port-Identifier	Unsigned32	
Note: The AVP codes from 3011to 3099 are reserved for TS 29.368	Unsignedaz	
	OctotStrica	
3100 IP-SM-GW-Number	OctetString	
3101 IP-SM-GW-Name	Diameter Identity	29.336 [28]
3102 User-Identifier	Grouped	
3103 Service-ID	Enumerated	

			I
	SCS-Identity	OctetString	
	Service-Parameters	Grouped	
	T4-Parameters	Grouped	
	Service-Data	Grouped	
	T4-Data	Grouped	
	HSS-Cause	Unsigned32	
	SIR-Flags	Unsigned32	
3111	External-Identifier	UTF8String	
Note:	The AVP codes from 3112 to 3199 are reserved for TS 29.336		
3200	SM-Delivery-Outcome-T4	Enumerated	29.337 [29]
	Absent-Subscriber-Diagnostic-T4	Enumerated	29.337 [29]
	The AVP codes from 3202 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	
	SM-Delivery-Timer	Unsigned32	
3307	SM-Delivery-Start-Time	Time	
	SM-RP-MTÍ	Enumerated	
3309	SM-RP-SMEA	OctetString	
	SRR-Flags	Unsigned32	
	SM-Delivery-Not-Intended	Enumerated	29.338 [30]
	MWD-Status	Unsigned32	
3313	MME-Absent-User-Subscriber-Diagnostic-SM	Enumerated	
	MSC-Absent-User-Subscriber-Diagnostic-SM	Enumerated	
	SGSN-Absent-User-Subscriber-Diagnostic SM	Enumerated	
	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-Subscriber-Diagnostic-SM	OctetString	
	The AVP codes from 3323 to 3399 are reserved for TS 29.338	1	<u> </u>

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 Code	Result text	Specified in the TS		
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 Experim	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 Experimental Result Codes from 2022 to 2040 are reserved for the TS 29.061				
		29.109 [7]		
Note: The Experimental 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.							
4141	DIAMETER_PCC_BEARER_EVENT							
4142	DIAMETER_BEARER_EVENT	29.212 [19]						
4143	DIAMETER_AN_GW_FAILED							
Note: The Experime	ntal Result Codes from 4144 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	29.272 [21]						
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.							
4201	DIAMETER_ERROR_ABSENT_USER	29.173 [25]						
Note: The Experimental 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 Experimental Result Codes from 4227 to 4240 are reserved for the TS 29.172.								
4241	DIAMETER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	29.219 [26]						
Note: The Experime	ntal Result Codes from 4242 to 4260 are reserved for the TS 29.219.							

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	-
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	29.229 [2]
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED	
Note: The Expe	rimental Result Codes from 5012 to 5020 are reserved for the T	S 29.229.
		32.299 [5]
Note: The Expe	erimental Result Codes from 5021 to 5040 are reserved for the T	S 32.299.
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC	29.234 [6]
	RIPTION	29.234 [0]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	
Note: The Expe	rimental Result Codes from 5046 to 5060 are reserved for the T	S 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	
5064	DUPLICATED_AF_SESSION	29.209 [8],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.211 [17]
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
5068	TEMPORARY_NETWORK_FAILURE	
	rimental Result Codes from 5063 to 5080 are reserved for TS 29TS 29.214.	9.209, TS 29.211
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	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	29.329 [4]
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	
Note: The Expe	rimental Result Codes from 5109 to 5119 are reserved for the T	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	rimental Result Codes from 5124 to 5139 are reserved for the T	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	
	rimental Result Codes from 5149 to 5159 are reserved for the T	S 29.212.
5401	DIAMETER_ERROR_IMPI_UNKNOWN	
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	
-	-	

Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109.			
S421 DIAMETER_ERROR_RAT_NOT_ALLOWED 5422 DIAMETER_ERROR_EQUIPMENT_UNKNOWN 5423 DIAMETER_ERROR_UNKNOWN_SERVING_NODE	Note: The Ex		S 29.109.
S422 DIAMETER_ERROR_EQUIPMENT_UNKNOWN S423 DIAMETER_ERROR_UNKNOWN_SERVING_NODE	5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
Note: The Experimental Result Codes from 5424 to 5449 are reserved for the TS 29.272.	5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
Note: The Experimental Result Codes from 5424 to 5449 are reserved for the TS 29.272.	5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTION 5451 DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION 5452 DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED Note: The Experimental Result Codes from 5453 to 5469 are reserved for the TS 29.273. 5470 DIAMETER_ERROR_SUBSESSION 5471 DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME NT Note: The Experimental Result Codes from 5472 to 5489 are reserved for the TS 29.215 [22] NOTE: The Experimental Result Codes from 5472 to 5489 are reserved for the TS 29.215. 5490 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK NORK NOTE: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173 [25] Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.336 [28] 5510 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTITY 29.336 [28] 5511 DIAMETER_ERROR_UNAUTHORIZED_SERVICE Note: The Experimental Result Codes from 5512 to 5529 are reserved for the TS 29.336. 5530 DIAMETER_ERROR_INVALID_SME_ADDRESS 5531 DIAMETER_ERROR_INVALID_SME_ADDRESS 5531 DIAMETER_ERROR_SC_CONGESTION 29.337 [29] 5532 DIAMETER_ERROR_SM_PROTOCOL Note: The Experimental Result Codes from 5533 to 5549 are reserved for the TS 29.337. 5550 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5550 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5551 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5552 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5553 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5554 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5555 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5555 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5555 DIAMETER_ERROR_SERVICE_BARRED 5556 DIAMETER_ERROR_SERVICE_BARRED 5557 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]			
ON 5451 DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION 5452 DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED Note: The Experimental Result Codes from 5453 to 5469 are reserved for the TS 29.273. 5470 DIAMETER_ERROR_SUBSESSION 5471 DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME NT Note: The Experimental Result Codes from 5472 to 5489 are reserved for the TS 29.215 [22] NT Note: The Experimental Result Codes from 5472 to 5489 are reserved for the TS 29.215. 5490 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK 29.173 [25] Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173. 5510 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI TY 29.336 [28] 5511 DIAMETER_ERROR_UNAUTHORIZED_SERVICE 29.336 [28] 5511 DIAMETER_ERROR_INVALID_SME_ADDRESS 5530 DIAMETER_ERROR_INVALID_SME_ADDRESS 5531 DIAMETER_ERROR_SC_CONGESTION 29.337 [29] 5532 DIAMETER_ERROR_SC_CONGESTION 29.337 [29] 5533 DIAMETER_ERROR_SM_PROTOCOL Note: The Experimental Result Codes from 5533 to 5549 are reserved for the TS 29.337. 5550 DIAMETER_ERROR_ABSENT_USER 5551 DIAMETER_ERROR_BSENT_USER 5555 DIAMETER_ERROR_LILEGAL_USER 5555 DIAMETER_ERROR_ILLEGAL_USER 5555 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 29.338 [30] 5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5557 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_SERVICE_BARRED 5556 DIAMETER_ERROR_SERVICE_BARRED 5557 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_SERVICE_BARRED 5559 DIAMETER_ERROR_SERVICE_BARRED 5550 DIAMETER_ERROR_SERVICE_	Note: The Ex		S 29.272.
S451 DIAMETER_ERROR_USER_NO_APP_SUBSCRIPTION	5450		00 070 [00]
Note: The Experimental Result Codes from 5453 to 5469 are reserved for the TS 29.273.	5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	29.273 [20]
Note: The Experimental Result Codes from 5453 to 5469 are reserved for the TS 29.273.	5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	
5470 DIAMETER_ERROR_SUBSESSION 5471 DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME NT Note: The Experimental Result Codes from 5472 to 5489 are reserved for the TS 29.215. 5490 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173. 5510 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI TY 29.336 [28] 5511 DIAMETER_ERROR_UNAUTHORIZED_SERVICE Note: The Experimental Result Codes from 5512 to 5529 are reserved for the TS 29.336. 5530 DIAMETER_ERROR_INVALID_SME_ADDRESS 5531 DIAMETER_ERROR_INVALID_SME_ADDRESS 5532 DIAMETER_ERROR_SC_CONGESTION 29.337 [29] 5552 DIAMETER_ERROR_SM_PROTOCOL Note: The Experimental Result Codes from 5533 to 5549 are reserved for the TS 29.337. 5550 DIAMETER_ERROR_ABSENT_USER 5551 DIAMETER_ERROR_BUSY_FOR_MT_SMS 5552 DIAMETER_ERROR_FACILITY_NOT_SUPPORTED 5553 DIAMETER_ERROR_ILLEGAL_USER 5554 DIAMETER_ERROR_ILLEGAL_USER 5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5557 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_SERVICE_BARRED 5559 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]	Note: The Ex		S 29.273.
NT Note: The Experimental Result Codes from 5472 to 5489 are reserved for the TS 29.215. 5490 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173. 5510 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI TY 29.336 [28] 5511 DIAMETER_ERROR_UNAUTHORIZED_SERVICE Note: The Experimental Result Codes from 5512 to 5529 are reserved for the TS 29.336. 5530 DIAMETER_ERROR_INVALID_SME_ADDRESS 5531 DIAMETER_ERROR_SC_CONGESTION 29.337 [29] 5532 DIAMETER_ERROR_SM_PROTOCOL Note: The Experimental Result Codes from 5533 to 5549 are reserved for the TS 29.337. 5550 DIAMETER_ERROR_ABSENT_USER 5551 DIAMETER_ERROR_BUSY_FOR_MT_SMS 5552 DIAMETER_ERROR_ILLEGAL_USER 5554 DIAMETER_ERROR_ILLEGAL_USER 5555 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 29.338 [30] 5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5557 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_SERVICE_BARRED 5559 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]			
DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK 29.173 [25] Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173. 5510	5471		29.215 [22]
WORK 29.173 [25] Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173. 5510	Note: The Ex	perimental Result Codes from 5472 to 5489 are reserved for the T	S 29.215.
5510 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI TY 29.336 [28] 5511 DIAMETER_ERROR_UNAUTHORIZED_SERVICE Note: The Experimental Result Codes from 5512 to 5529 are reserved for the TS 29.336. 5530 DIAMETER_ERROR_INVALID_SME_ADDRESS 5531 DIAMETER_ERROR_SC_CONGESTION 5532 DIAMETER_ERROR_SM_PROTOCOL Note: The Experimental Result Codes from 5533 to 5549 are reserved for the TS 29.337. 5550 DIAMETER_ERROR_ABSENT_USER 5551 DIAMETER_ERROR_BUSY_FOR_MT_SMS 5552 DIAMETER_ERROR_ILLEGAL_USER 5553 DIAMETER_ERROR_ILLEGAL_USER 5554 DIAMETER_ERROR_ILLEGAL_USER 5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5557 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5558 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.336 [28] 29.336 [28] 29.336 [28]	5490		29.173 [25]
TY 29.336 [28] 5511 DIAMETER_ERROR_UNAUTHORIZED_SERVICE Note: The Experimental Result Codes from 5512 to 5529 are reserved for the TS 29.336. 5530 DIAMETER_ERROR_INVALID_SME_ADDRESS 5531 DIAMETER_ERROR_SC_CONGESTION 29.337 [29] 5532 DIAMETER_ERROR_SM_PROTOCOL Note: The Experimental Result Codes from 5533 to 5549 are reserved for the TS 29.337. 5550 DIAMETER_ERROR_ABSENT_USER 5551 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5552 DIAMETER_ERROR_FACILITY_NOT_SUPPORTED 5553 DIAMETER_ERROR_ILLEGAL_USER 5554 DIAMETER_ERROR_ILLEGAL_USER 5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5557 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5558 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]	Note: The Ex	perimental Result Codes from 5491 to 5509 are reserved for the T	S 29.173.
Note: The Experimental Result Codes from 5512 to 5529 are reserved for the TS 29.336. 5530 DIAMETER_ERROR_INVALID_SME_ADDRESS 5531 DIAMETER_ERROR_SC_CONGESTION 5532 DIAMETER_ERROR_SM_PROTOCOL Note: The Experimental Result Codes from 5533 to 5549 are reserved for the TS 29.337. 5550 DIAMETER_ERROR_ABSENT_USER 5551 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5552 DIAMETER_ERROR_ILLEGAL_USER 5553 DIAMETER_ERROR_ILLEGAL_USER 5554 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5557 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.336 [29]	5510		29.336 [28]
DIAMETER_ERROR_INVALID_SME_ADDRESS	5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
5531 DIAMETER_ERROR_SC_CONGESTION 5532 DIAMETER_ERROR_SM_PROTOCOL Note: The Experimental Result Codes from 5533 to 5549 are reserved for the TS 29.337. 5550 DIAMETER_ERROR_ABSENT_USER 5551 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5552 DIAMETER_ERROR_ILLEGAL_USER 5553 DIAMETER_ERROR_ILLEGAL_USER 5554 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5557 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.337 [29] 29.337 [29]	Note: The Ex	perimental Result Codes from 5512 to 5529 are reserved for the T	S 29.336.
DIAMETER_ERROR_SM_PROTOCOL	5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	
Note: The Experimental Result Codes from 5533 to 5549 are reserved for the TS 29.337. 5550 DIAMETER_ERROR_ABSENT_USER 5551 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5552 DIAMETER_ERROR_FACILITY_NOT_SUPPORTED 5553 DIAMETER_ERROR_ILLEGAL_USER 5554 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5557 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]			29.337 [29]
5550 DIAMETER_ERROR_ABSENT_USER 5551 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5552 DIAMETER_ERROR_FACILITY_NOT_SUPPORTED 5553 DIAMETER_ERROR_ILLEGAL_USER 5554 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 29.338 [30] 5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5557 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]			
5551 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5552 DIAMETER_ERROR_FACILITY_NOT_SUPPORTED 5553 DIAMETER_ERROR_ILLEGAL_USER 5554 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5557 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]	Note: The Ex		S 29.337.
5552 DIAMETER_ERROR_FACILITY_NOT_SUPPORTED 5553 DIAMETER_ERROR_ILLEGAL_USER 5554 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5557 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]	5550		
5553 DIAMETER_ERROR_ILLEGAL_USER 5554 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5557 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]			
5554 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 29.338 [30] 5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5557 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]			
5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5557 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]	5553		
5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5557 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]	5554		29.338 [30]
5557 DIAMETER_ERROR_SERVICE_BARRED 5558 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]	5555		
5558 DIAMETER_ERROR_MWD_LIST_FULL Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]			
Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338. 5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]			
5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]			
Note: The Experimental Result Codes from 5571 to 5589 are reserved for the TS 29.219.			
	Note: The Ex	perimental Result Codes from 5571 to 5589 are reserved for the T	S 29.219.

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	009	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 of Ro for Re on the Charging Interfaces	6.1.0	6.2.0
2004-12	CN#26	NP-040579	011		Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579	012		Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047	040	1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039	043		Allocations for Gx interface	Ī	
		NP-050039			Allocations for Gmb interface		
		NP-050039			Allocations for MMS, MM10 Interface		
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.3.0	6.4.0
		CP-050196		1	Addition of Maximum-Number-Accesses AVP		
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.4.0	6.5.0
	1 2	CP-050310		<u> </u>	Addition of Pr reference point to TS 29.230	5	3.5.5
		CP-050310		 	Error code cleanup	1	
		CP-050310		<u> </u>	Addition of Rx ref. point and renaming of Experimental Result	1	
		01 -030310	0030		Codes		
2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-12	CT#30	CP-050624			Addition of GBA-Type AVP	7.0.0	7.1.0
		CP-050612			Additional Gmb AVP Allocation		
		CP-050612			Reservation of AVP codes for 32.299	1	
	ľ	CP-050625			Management of Sh subscriptions		
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
2000 00	01//01	CP-060084			User-Data in the response to Sh-Subs-Notif	7.1.0	7.2.0
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure	_	
2006-06	CT#32	CP-060302		<u>'</u>	S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417		2	New AVP Code	7.3.0	7.4.0
2000-03	01#33	CP-060417		J	Errors to be sent in response to Sh-Notif	7.5.0	7.4.0
	ł	CP-060417			Definition of specific Diameter codes for DSAI	1	
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
2000-12	C1#34	CP-060562		<u> </u>	Addition of Diameter Error Code for Emergency Purposes	7.4.0	7.5.0
	}	CP-060555			Allocation of new AVP codes for Gmb	1	
		CP-060555			AVP code allocations for Rf and Ro interfaces	1	
						4	
0007.00	OT#05	CP-060566			Allocation of Success Result Code Range for Gi Interface	7.5.0	7.00
2007-03	CT#35	CP-070020			C3 requested addition of new AVP code values to 3GPP TS 29.230	7.5.0	7.6.0
		CP-070020			Allocation of new AVP code for DSAI-Tag AVP	_	
		CP-070020		<u> </u>	Allocation of Experimental-Result-Code AVP for Gi Interface		
2007-06	CT#36	CP-070318			Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
	Į	CP-070312			Experimental-Result-Codes for Gmb interface		
	<u> </u>	CP-070312			Correction of Diameter AVP code allocation	<u></u>	
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
		2.3.30	0103		AVP code reservation for 32.299 in Rel-8	1	3.3
2008-03	CT#39	CP-080015		<u> </u>	Correction of reference to TS 29.140	8.0.0	8.1.0
		CP-080019		1	AVP code reservation for TS 32.299 in Rel-8	1	1
		CP-080019		1	Wildcarded Public User Identities	1	
		CP-080191		1	Correction on AVP code allocation reservation for TS 32.299 in	1	
		CD 000004	0112	1	Rel-7	1	
2002 22	OT#40	CP-080204			Correction on AVP code allocation reservation for TS 32.299	0.4.0	0.00
2008-06	CT#40	CP-080267		1	A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-09	CT#41	CP-080456		1	Emergency Public User Identity Removal	8.2.0	8.3.0
2008-09	CT#41	CP-080460			Support of "Loose-Route" indication from HSS	4	
2008-09	CT#41	CP-080460	0122	1	STaMIP Application Id]	1

2008-09	CT#41	CP-080463	0123		Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment)		
2008-09	CT#41	CP-080463	0124		New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42	CP-080691		2	Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691		1	Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044	0130	1	Update for ReadyForSM	8.4.0	8.5.0
2009-03	CT#43	CP-090044	0131	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	CP-090024			Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0140	1	Location of Permanent Failure result code range for the S9 application	8.4.0	8.5.0
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		4	Update of the AVP Codes	8.5.0	8.6.0
		CP-090299	0143		AVP code reservation for TS 32.299		
		CP-090299	0145		Diameter Command Codes for S6a/S6d/S13/S13"		
	Ì		0146		Removal of Requesting Node Type from AIR		
	Ì	CP-090299	0147		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	0152		AVP code allocation for TS 29.212	7	
		CP-090531	0150		Update of the AVP type for the User-Id	7	
		CP-090531			Trace Depth per session	7	
2009-09	CT#45	CP-090557			AVP code range for charging	8.7.0	9.0.0
2009-12	CT#46	CP-090800	0154	1	ICS-Flag	9.0.0	9.1.0
		CP-091032			From GMLC-Address to GMLC-Number		
			0160		Session-Priority AVP		
			0163	2	Introduction of SLh application related AVPs and Experimental		
	1		0166		Result codes Missing AVP error codes		}
		CP-090797		1	Introduction of SLg application related AVPs and Application		
		CF-090797	0107	1	Identifier		
2010-03	CT#47	CP-100031	0158	1	Wildcarded Public Identity	9.1.0	9.2.0
2010 00	0 1 11 11	CP-100034			Correction on AVP code allocation reservation for TS 32.299 in	- 0.1.0	0.2.0
					Rel-9		
	İ	CP-100046	0169	1	AVP code allocation for 29.172		ĺ
	Ì	CP-100036	0172		GPL_U support in TS 29.109		Ì
		CP-100046			Error codes in 29.172 for SLg		
		CP-100048		1	AVPs in 29.272 for TADS support		
		CP-100040			Error codes in 29.272 for Unknown MME		
		CP-100236		4	EPS Subcsriber State and Location Information Request		ļ
		CP-100033			One time notification AVP allocation		
		CP-100046 CP-100175			Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
2010-06	CT#48	CP-100173			AVP Codes for PCC	9.2.0	9.3.0
2010-00	01#40	CF-100203	0183	1	EPS state and location retrieval	9.2.0	9.3.0
		CP-100287			SGmb Application ID		
		CP-100207		1	New APVs in S6a protocol	1	
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
					interfaces		
		CP-100464			AVP Codes Allocation for PCC	L	
2010-09	CT#49	CP-100465	0193		SIPTO Permission Indicator	9.4.0	10.0.
		CP-100466			Location data including only serving node address	_	
	0	CP-100466		1	AVP for Update-Eff feature	1	1
2010-12	CT#50	CP-100699		4	Enhanced SRVCC Subscriber Data	10.0.0	10.1.
		CP-100687			Allocate codes for AVPs on eMPS	4	
		CP-100683			Allocate codes for AVPs on LIPA	4	
		CP-100688			Periodic TAU/RAU timer in HSS subscription	-	
2011-03	CT#51	CP-100846 CP-110051		1	S6a Error Diagnostic PDP-Address correction	10.1.0	10.2
-011-03	01#31	CP-110051			Essential correction on the value type of the ELP Application	10.1.0	10.2.
					AVPs		
		CP-110087			Minimization of Drive Tests (MDT)	_	
	1	CP-110088			Relay Node Indicator AVPs		
		CD 440240	0219		Handling of RTR for Emergency Registration	10.2.0	10.3
2011-06	CT#52	CP-110349			Add AVPs from QSPEC cleanup	1	
2011-06	CT#52	CP-110347	0231	1			ì
2011-06	CT#52	CP-110347 CP-110359	0231 0226	1	MIPv4 security parameters on the STa and S6b interfaces		
2011-06	CT#52	CP-110347 CP-110359 CP-110380	0231 0226 0216	1	MIPv4 security parameters on the STa and S6b interfaces MDT user consent	_	
2011-06	CT#52	CP-110347 CP-110359 CP-110380 CP-110370	0231 0226 0216 0223		MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging		
2011-06	CT#52	CP-110347 CP-110359 CP-110380	0231 0226 0216 0223 0227	1	MIPv4 security parameters on the STa and S6b interfaces MDT user consent	10.3.0	10.4.

		CP-110554		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		
	07	CP-110722		2	Priviledged sender		
2011-09	CT#53	CP-110584		1	Add vSRVCC updates to the Diameter AVP code table	10.4.0	11.0.0
		CP-110579			AVP code alignment with 32.299 AVP code reservation for 29.212		1
2011-12	CT#54	CP-110555 CP-110812		1	SWx Restoration AVPs	11.0.0	11.1.0
2011-12	01#34	CP-110812		1	Sy and Sd Application IDs	11.0.0	11.1.0
		CP-110775			New AVP codes for MBMS IP unicast encapsulation		
		CP-110775			New AVP codes for MBMS IP multicast encapsulation	-	Ì
		CP-110786		1	MME-Realm AVP code allocation		İ
		CP-110811			Equivalent PLMN CSG Subscription Request		Ì
		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		
		CD 400000	0004	4	SGmb		
2012-06	CT#56	CP-120038		1	Allocating Diameter AVP codes for TS 29.219 and TS 29.212 Codes Allocation for AVPs on NPLI	11.2.0	11.3.0
2012-06	C1#56	CP-120240 CP-120238			Adding new Diameter AVPs to Diameter table to support Trusted	11.2.0	11.3.0
		CF-120236	0294	1	WLAN Access feature		
	İ	CP-120225	0296	1	Trust Relationship Indication		İ
		CP-120251	0297	1	Corrections to reference titles]	j
	İ	CP-120251			Diameter Code Allocation for TS 29.219		İ
		CP-120247		-	Network Name AVP codes		
		CP-120219		-	Duplicated AVP names		
2012-09	CT#57	CP-120481			PS additional number allocation	11.3.0	11.4.0
		CP-120473			SMS in MME/SGSN		
		CP-120461			AAA Failure Recovery AVP codes		
		CP-120474			Transport Access Type AVP for BBAI		
		CP-120480 CP-120472		1	Local Time Zone Allocating Application Identifier and command code for Tsp		
		CF-120472	0306	-	interface		
		CP-120472	0309	_	Application Identifier, Command Codes and AVP range for S6m		
		01 120472	0000		interface		
		CP-120667	0312	1	GMLC-Name		Ì
			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		1	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	-	1
		CP-120742			UE Time Zone AVP		1
		CP-120741			Use of Flag instead of Enumerated AVPs		1
		CP-120741		-	Use of Flag instead of Enumerated AVPs		
		CP-120743		-	PSI direct routing with restoration procedures		
		CP-120743		-	EPS LocationInformation Support	1	<u> </u>
2013-03	CT#59	CP-130026	0334	1	Diameter error code for TS 29.219	11.5.0	11.6.0
		CP-130026		-	MDT parameters		
2013-06	CT#60	CP-130288		1	Add new DER-S6b-flag AVP	11.6.0	11.7.0
		CP-130298		-	Failure Result Codes Allocation for TS 29.219	1	
		CP-130292		-	Diameter AVP codes for new TS 32.299 AVPs	1	-
		CP-130279		1	Definition of SS Status for Call Barring	4	
		CP-130297			Application Port Identifier Restoration Priority during SGW and PGW restoration	4	
		CP-130295	0343	-	procedures		
		CP-130374	0335	3	MTRR on Sh	1	1
2013-09	CT#61	CP-130460		-	Allocation of Diameter codes and identifiers for 29.212 and	11.7.0	11.8.0
		255150			29.215		
2013-12	CT#62	CP-130600	0375	-	Allocation of Diameter codes for 32.299	11.8.0	11.9.0
	1	CP-130605	0377	-	Allocation of Diameter codes for 29.212]	
		CP-130605			Command Code Value correction for TER/TEA		
2014-03	CT#63	CP-140023		1	Definition of WLAN-related AVPs	11.9.0	11.10.0
		CP-140231		-	Adding Codes for 29.214	11.10.0	11.11.0
		CP-140257		-	SS-Status AVP Definition	1	ļ
		CP-140236	0400	-	TWAN-BSSID AVP re-naming		

History

	Document history						
V11.4.0	October 2012	Publication					
V11.5.0	January 2013	Publication					
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V11.7.0	July 2013	Publication					
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V11.9.0	December 2013	Publication					
V11.10.0	March 2014	Publication					
V11.11.0	July 2014	Publication					