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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

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.

Diameter protocol; Stage 3".

• For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

	1
[1]	3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and message contents".
[2]	3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter protocol; Protocol details".
[3]	3GPP TS 29.328: "IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents".
[4]	3GPP TS 29.329: "Sh Interface based on the Diameter protocol; Protocol details".
[5]	3GPP TS 32.299: "Telecommunication management; Charging management; Diameter charging applications".
[6]	3GPP TS 29.234, Release 11: "3GPP system to Wireless Local Area Network (WLAN) interworking; Stage 3".
[7]	3GPP TS 29.109: "Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Stage 3".
[8]	3GPP TS 29.209, Release 6: "Policy control over Gq interface".
[9]	IETF RFC 3588: "Diameter Base Protocol".
[10]	IETF RFC 3589: "Diameter Command Codes for Third Generation Partnership Project (3GPP) Release 5".
[11]	IANA"s Enterprise-Numbers: http://www.iana.org/assignments/enterprise-numbers
[12]	IANA"s AAA parameters register: ftp://ftp.iana.org/assignments/aaa-parameters/
[13]	3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".
[14]	3GPP TS 32.296: "Telecommunication management; Charging management; Online Charging System (OCS): Applications and interfaces".
[15]	3GPP TS 29.210, Release 6: "Charging rule provisioning over Gx interface".
[16]	3GPP TS 29.140 Release 6: "Multimedia Messaging Service (MMS); MM10 interface based on

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

3 Definitions and abbreviations

3.1 Definitions

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

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

3.2 Abbreviations

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

AVP Attribute-Value-Pair CR Change Request

IANA Internet Assigned Numbers Authority

IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

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

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

4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

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

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	00 470 [04]
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-	SNR/SNA	29.219 [26]
	Request/Answer		
8388637	TDF-Session-Request/Answer	TSR/TSA	29.212 [19]
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]
8388639	Device-Action-Request/Answer	DAR/DAA	00 000 [07]
8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]
8388643	Device-Trigger-Request/Answer	DTR/DTA	20 227 [20]
8388644	Delivery-Report-Request/Answer	DRR/DRA	29.337 [29]
8388645	MO-Forward-Short-Message Request/Answer	OFR/OFA	
8388646	MT-Forward-Short-Message Request/Answer	TFR/TFA	
8388647	Send-Routing-Info-for-SM- Request/Answer	SRR/SRA	29.338 [30]
8388648	Alert-Service-Centre-Request/Answer	ALR/ALA	
8388649	Report-SM-Delivery-Status- Request/Answer	RDR/RDA	
8388656	Trigger-Establishment-Request/Answer	TER/TEA	29.215 [30]
8388662	GCS-Action-Request/Answer	GAR/GAA	
8388663	GCS-Notification-Request/Answer	GNR/GNA	29.468 [31]
8388664	ProSe-Subscriber-Information- Request/Answer	PIR/PIA	
8388665	Update-ProSe-Subscriber-Data- Request/Answer	UPR/UPA	29.344 [33]
8388666	ProSe-Notify-Request/Answer	PNR/PNA	
8388713	ProSe-Initial-Location-Information- Request/Answer	PSR/PSA	
8388668	ProSe-Authorization-Request/Answer	PAR/PAA	
8388669	ProSe-Discovery-Request/Answer	PDR/PDA	
8388670	ProSe-Match-Request/Answer	PMR/PMA	
8388671	ProSe-Match-Report-Info- Request/Answer	PIR/PIA	29.345 [34]
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	
8388674	ProSe-Alert-Request/Answer	ALR/ALA	
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	
8388676	ProXimity-Action-Request/Answer	PXR/PXA	29.343 [32]

6 Vendor identifier

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

6.1 3GPP"s vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
102	3GPP-WLAN-QoS-Filter-Support	OctetString	
Note:	The AVP codes from 1 to 255 are reserved for backwards compatibilit	y with 3GPP RADIUS Ve	ndor Specific
Attribu	utes (See TS 29.061 [13] and TS 29.234 [6])	-	•
Note:	The AVP codes from 256 to 299 are reserved for future use.		
300	Authentication-Method	Enumerated	
	Authentication-Information-SIM	OctetString	
302	Authorization -Information-SIM	OctetString	
303	WLAN-User-Data	Grouped	
	Charging-Data	Grouped	
	WLAN-Access	Enumerated	
	WLAN- 3GPP-IP-Access	Enumerated	
	APN-Authorized	Grouped	
308	APN-Id		
	APN-Barring-Type	Enumerated	29.234 [6]
	WLAN-Direct-IP-Access	Enumerated	23.254 [0]
	Session-Request-Type	Enumerated	
	Routing-Policy	IPFilterRule	
	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	
318	3GPP-AAA-Server-Name	DiameterIdentity	
319	Maximum-Number-Accesses	Unsigned32	
Note '	1: The AVP codes from 320 to 399 are reserved for TS 29.234		
	2: The 3GPP-AAA-Server-Name definition is moved to TS 29.273 star	ting from Rel-12.	
	GBA-UserSecSettings	OctetString	
	Transaction-Identifier NAF-Hostname	OctetString OctetString	
	GAA-Service-Identifier	OctetString	-
	Key-ExpiryTime	Time	-
405	ME-Key-Material	OctetString	
406	UICC-Key-Material	OctetString	
407	GBA_U-Awareness-Indicator	Enumerated	
	BootstrapInfoCreationTime	Time	
409	GUSS-Timestamp GBA-Type	Time Enumerated	29.109 [7]
	UE-Id	OctetString	29.109[7]
	UE-Id-Type	Enumerated	-
413	UICC-App-Label	OctetString	
	UICC-MÉ	Enumerated	
415	Requested-Key-Lifetime	Time	
	Private-Identity-Request	Enumerated	
	GBA-Push-Info NAF-SA-Identifier	OctetString OctetString	
410	Security-Feature-Request	OctetString	
	Security-Feature-Response	OctetString	-
	The AVP codes from 421 to 499 are reserved for TS 29.109		
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	1
	Access-Network-Charging-Identifier	Grouped	
	Access-Network-Charging-Identifier-Value	OctetString	29.209 [8],
	AF-Application-Identifier	OctetString	29.211 [17] ,
	AF-Charging-Identifier	OctetString	29.214 [18]
	Authorization-Token	OctetString	1
	Flow-Description	IPFilterRule	1
	· · · · · = · · · · · · · · · · · ·		l.

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Flow-Grouping	Grouped	
 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	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 GCS-Identifier	OctetString	
The AVP codes from 539 to 599 are reserved for TS 29.209, TS 29.2	OctetString	
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	29.229 [2]
Reason-Info	UTF8String	[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	
Supported-Applications	Grouped	
Associated-Identities	Grouped	

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	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String	
	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	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	
	Record-Route	OctetString	
	Associated-Registered-Identities	Grouped	
	Multiple-Registration-Indication	Enumerated	
	Restoration-Info	Grouped	
	Session-Priority	Enumerated	
	Identity-with-Emergency-Registration	Grouped	
	Priviledged-Sender-Indication	Enumerated	
	LIA-Flags	Unsigned32	
	Initial-CSeq-Sequence-Number	Unsigned32	
	SAR-Flags	Unsigned32	
	The AVP codes from 656 to 699 are reserved for TS 29.229.	0	
	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	00 000 [4]
	DSAI-Tag	OctetString	29.329 [4]
	One-Time-Notification	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 Call-Reference-Info	Unsigned32	
	Call-Reference-Info Call-Reference-Number	Grouped OctetString	
	AS-Number	OctetString	
	The AVP codes from 723 to 799 are reserved for TS 29.329.	Ocieloling	
	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 Event	UTF8String	
	Content-Type	UTF8String	
	Content-Type Content-Length	Unsigned32	
	Content-Length Content-Disposition	UTF8String	
	Role-of-Node	Enumerated	
	User-Session-Id	UTF8String	
	Calling-Party-Address	UTF8String UTF8String	32.299 [5]
	Calling-Party-Address Called-Party-Address	UTF8String	
	Time-Stamps	Grouped	
	SIP-Request-Timestamp	Time	
	SIP-Request-Timestamp	Time	
	Application-Server	UTF8String	
	Application-Server Application-provided-called-party-address	UTF8String	
ರವರ	Inter-Operator-Identifier	Grouped	

000	0	LITTOO:	
	Originating-IOI	UTF8String	
	Terminating-IOI	UTF8String	
	IMS-Charging-Identifier	UTF8String	
	SDP-Session-Description SDP-Media-Component	UTF8String Crauped	
	SDP-Media-Component SDP-Media-Name	Grouped UTF8String	
	SDP-Media-Name SDP-Media-Description	UTF8String	
	CG-Address	Address	
	GGSN-Address	Address	
	Served-Party-IP-Address	Address	
	Authorized-QoS	UTF8String	
	Application-Server-Information	Grouped	
	Trunk-Group-Id	Grouped	
	Incoming-Trunk-Group-Id	UTF8String	
	Outgoing-Trunk-Group-Id	UTF8String	
	Bearer-Service	OctetString	
	Service-Id	UTF8String	
	Associated-URI	UTF8String	
	Charged-Party	UTF8String	
	PoC-Controlling-Address	UTF8String	
	PoC-Group-Name	UTF8String	
	Cause	Grouped	
	Cause-Code	Integer32	
	Node-Functionality	Enumerated	
	Service-Specific-Data	UTF8String	
	Originator Originator	Enumerated	
	PS-Furnish-Charging-Information	Grouped	
	PS-Free-Format-Data	OctetString	
	PS-Append-Free-Format-Data	Enumerated	
	Time-Quota-Threshold	Unsigned32	
	Volume-Quota-Threshold	Unsigned32	
	Trigger-Type	Enumerated	
	Quota-Holding-Time	Unsigned32	
	Reporting-Reason	Enumerated	
	Service-Information	Grouped	
874	PS-Information	Grouped	
875	Reserved	-	
876	IMS-Information	Grouped	
877	MMS-Information	Grouped	
	LCS-Information	Grouped	
	PoC-Information	Grouped	
	MBMS-Information	Grouped	
	Quota-Consumption-Time	Unsigned32	
	Media-Initiator-Flag	Enumerated	
	PoC-Server-Role	Enumerated	
	PoC-Session-Type	Enumerated	
	Number-Of-Participants	Unsigned32	
	Originator-Address	Grouped	
	Participants-Involved	UTF8String	
	Expires	Unsigned32	
	Message-Body	Grouped	
	Reserved	-	
	Address-Data	UTF8String	
	Address-Domain	Grouped	
899	Address-Type	Enumerated	
000	TMO	1 0: :0:	
	TMGI	OctectString	00 004 5403
	Required-MBMS-Bearer-Capabilities MBMS-StartStop-Indication	UTF8String	29.061 [13]
	INVIRUANSTOREIDAICOTION	Enumerated	

		, ,	
	MS-Service-Area	OctectString	
904 MBI	MS-Session-Duration	Unsigned32	
905 Alte	ernative-APN	UTF8String	
	MS-Service-Type	Enumerated	
	MS-2G-3G-Indicator	Enumerated	
	MS-Session-Identity	OctetString	
909 RAI			
		UTF8String	
	litional-MBMS-Trace-Info	OctetString	
	MS-Time-To-Data-Transfer	Unsigned32	
912 MBI	MS-Session-Identity-Repetition-Number	Unsigned32	
913 MBI	MS-Required-QoS	UTF8String	
	MS-Counting-Information	Enumerated	
	MS-User-Data-Mode-Indication	Enumerated	
	MS-GGSN-Address		
		UTF8String	
	MS-GGSN-IPv6-Address	UTF8String	
	MS-BMSC-SSM-IP-Address	UTF8String	
919 MBI	MS-BMSC-SSM-IPv6-Address	UTF8String	
920 MBI	MS-Flow-Identifier	OctetString	
921 CN-	-IP-Multicast-Distribution	Enumerated	
	MS-HC-Indicator	Enumerated	
	MS-Access-Indicator	Enumerated	
	MS-GW-SSM-IP-Address	OctetString	
	MS-GW-SSM-IPv6-Address	OctetString	
	MS-BMSC-SSM-UDP-Port	OctetString	
	MS-GW-UDP-Port	OctetString	
928 MBI	MS-GW-UDP-Port-Indicator	Enumerated	
929 MBI	MS-Data-Transfer-Start	Unsigned64	
	MS-Data-Transfer-Stop	Unsigned64	
931 MBI		Unsigned32	
	start-Counter	Unsigned32	
	gnostic-Info	Unsigned32	
	AVP codes from 934 to 999 are reserved for TS 29.061		
	arer-Usage	Enumerated	
	arging-Rule-Install	Grouped	
1002 Cha	arging-Rule-Remove	Grouped	
	arging-Rule-Definition	Grouped	
	arging-Rule-Base-Name	UTF8String	
	arging-Rule-Name	OctetString	
	ent-Trigger	Enumerated	
	ering-Method		
		Enumerated	
1008 Offli		Enumerated	
1009 Onli		Enumerated	
1010 Pre		Unsigned32	
	porting-Level	Enumerated	
1012 TFT	-Filter	IPFilterRule	
1013 TFT	-Packet-Filter-Information	Grouped	
	S-Traffic-Class	OctetString	
	S-Information	Grouped	
	arging-Rule-Report	Grouped	20 242 [40]
			29.212 [19]
	C-Rule-Status	Enumerated	
	arer-Identifier	OctetString	
	arer-Operation	Enumerated	
	ess-Network-Charging-Identifier-Gx	Grouped	
1023 Bea	arer-Control-Mode	Enumerated	
	work-Request-Support	Enumerated	
	aranteed-Bitrate-DL	Unsigned32	
1020 (30)			
1026 Gua	aranteed-Bitrate-UL	Unsigned32	
1026 Gua 1027 IP-0	aranteed-Bitrate-UL CAN-Type	Unsigned32 Enumerated	
1026 Gua 1027 IP-0 1028 QoS	aranteed-Bitrate-UL CAN-Type S-Class-Identifier	Unsigned32 Enumerated Enumerated	
1026 Gua 1027 IP-0 1028 QoS 1029 QoS	aranteed-Bitrate-UL CAN-Type S-Class-Identifier S-Negotiation	Unsigned32 Enumerated Enumerated Enumerated	
1026 Gua 1027 IP-C 1028 QoS 1029 QoS 1030 QoS	aranteed-Bitrate-UL CAN-Type S-Class-Identifier S-Negotiation S-Upgrade	Unsigned32 Enumerated Enumerated	
1026 Gua 1027 IP-C 1028 QoS 1029 QoS 1030 QoS	aranteed-Bitrate-UL CAN-Type S-Class-Identifier S-Negotiation	Unsigned32 Enumerated Enumerated Enumerated	
1026 Gua 1027 IP-C 1028 QoS 1029 QoS 1030 QoS 1031 Ruk	aranteed-Bitrate-UL CAN-Type S-Class-Identifier S-Negotiation S-Upgrade e-Failure-Code	Unsigned32 Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated	
1026 Gua 1027 IP-0 1028 QoS 1029 QoS 1030 QoS 1031 Rule 1032 RAT	aranteed-Bitrate-UL CAN-Type S-Class-Identifier S-Negotiation S-Upgrade e-Failure-Code T-Type	Unsigned32 Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated	
1026 Gua 1027 IP-C 1028 QoS 1029 QoS 1030 QoS 1031 Rula 1032 RAT 1033 Eve	aranteed-Bitrate-UL CAN-Type S-Class-Identifier S-Negotiation S-Upgrade e-Failure-Code	Unsigned32 Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated	

1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32	
1041 APN-Aggregate-Max-Bitrate-UL	Unsigned32	
1042 Revalidation-Time	Time	
1043 Rule-Activation-Time	Time	
1044 Rule-DeActivation-Time	Time	
1045 Session-Release-Cause	Enumerated	
1046 Priority-Level	Unsigned32	
1047 Pre-emption-Capability	Enumerated	
1048 Pre-emption-Vulnerability	Enumerated	
1049 Default-EPS-Bearer-QoS	Grouped	
1050 AN-GW-Address	Address	
1051 QoS-Rule-Install 1052 QoS-Rule-Remove	Grouped Grouped	
1053 QoS-Rule-Remove	Grouped	
1055 QoS-Rule-Definition	OctetString	
1055 QoS-Rule-Report	Grouped	
1056 Security-Parameter-Index	OctetString	
1057 Flow-Label	OctetString	
1058 Flow-Information	Grouped	
1059 Packet-Filter-Content	IPFilterRule	
1060 Packet-Filter-Identifier	OctetString	
1061 Packet-Filter-Information	Grouped	
1062 Packet-Filter-Operation	Enumerated	
1063 Resource-Allocation-Notification	Enumerated	
1064 Session-Linking-Indicator	Enumerated	
1065 PDN-Connection-ID	OctetString	
1066 Monitoring-Key	OctetString	
1067 Usage-Monitoring-Information	Grouped	
1068 Usage-Monitoring-Level	Enumerated	
1069 Usage-Monitoring-Report 1070 Usage-Monitoring-Support	Enumerated	
1070 Osage-Monitoring-Support 1071 CSG-Information-Reporting	Enumerated Enumerated	
1071 CSG-Information-Reporting 1072 Packet-Filter-Usage	Enumerated	
1073 Charging-Correlation-Indicator	Enumerated	
1074 QoS-Rule-Base-Name	UTF8String	
1075 Routing-Rule-Remove	Grouped	
1076 Routing-Rule-Definition	Grouped	
1077 Routing-Rule-Identifier	OctetString	
1078 Routing-Filter	Grouped	
1079 Routing-IP-Address	Address	
1080 Flow-Direction	Enumerated	
1081 Routing-Rule-Install	Grouped	
1085 Redirect-Information	Grouped	
1086 Redirect- Support	Enumerated	
1087 TDF-Information	Grouped	
1088 TDF-Application-Identifier	OctetString	
1089 TDF-Destination-Host	DiameterIdentity	
1090 TDF-Destination-Realm	DiameterIdentity	
1091 TDF-IP-address 1092 ADC-Rule-Install	Address Grouped	
1092 ADC-Rule-Install 1093 ADC-Rule-Remove	Grouped	
1094 ADC-Rule-Remove	Grouped	
1095 ADC-Rule-Base-Name	UTF8String	
1096 ADC-Rule-Base-Name	OctetString	
1097 ADC-Rule-Report	Grouped	
1098 Application-Detection-Information	Grouped	
1099 PS-to-CS-Session-Continuity	Enumerated	
Note: The AVP codes from 1082 to 1084 are reserved for TS 29.212		
1100 Served-User-Identity	Groupe	00.440.5403
1101 VASP-ID	UTF8Str	29.140 [16]

1102 VAS-ID	UTF8String	
1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address	Grouped	
1106 Result-Recipient-Address	Grouped	
1107 Sequence-Number	Unsigned32	
1108 Recipient-Address	UTF8String	
1109 Routeing-Address	UTF8String	
1110 Originating-Interface	Enumerated	
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key	UTF8String	
1115 Billing-Information	UTF8String	
1116 Status	Grouped	
1117 Status-Code	UTF8String	
1118 Status-Text	UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	===	
1200 Domain-Name	UTF8String	
1201 Recipient-Address	Grouped	
1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size	Unsigned32	
1207 Additional-Content-Information	Grouped	
1208 Addressee-Type	Enumerated	
1209 Priority	Enumerated	
1210 Message-ID	UTF8String	
1211 Message-Type	Enumerated	
1212 Message-Size	Unsigned32	
1213 Message-Class	Grouped	
1214 Class-Identifier	Enumerated	
1215 Token-Text	UTF8String	
1216 Delivery-Report-Requested	Enumerated	
1217 Adaptations	Enumerated	
1218 Applic-ID	UTF8String	
1219 Aux-Applic-Info	UTF8String	
1220 Content-Class	Enumerated	
1221 DRM-Content	Enumerated	
1222 Read-Reply-Report-Requested	Enumerated	
1223 Reply-Applic-ID	UTF8String	32.299 [5]
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-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 Reserved	-	

	PDP-Context-Type	Enumerated	
	MMBox-Storage-Requested	Enumerated	
	Service-Specific-Info	Grouped	
	Called-Asserted-Identity	UTF8String	
	Requested-Party-Address	UTF8String	
	PoC-User-Role	Grouped	
	PoC-User-Role-IDs	UTF8String	
	PoC-User-Role-info-Units	Enumerated	
	Talk-Burst-Exchange	Grouped	
	Service-Generic-Information	Grouped	
	Service-Specific-Type	Unsigned32	
	Event-Charging-TimeStamp	Time	
	Participant-Access-Priority	Enumerated	
	Participant-Group	Grouped	
	PoC-Change-Conditions	Enumerated	
	PoC-Change-Time	Time	
	Access-Network-Information	OctetString	
	Trigger	Grouped	
	Base-Time-Interval	Unsigned32	
	Envelope	Grouped	
	Envelope-End-Time	Time	
	Envelope-Reporting	Enumerated	
	Envelope-Start-Time	Time	
	Time-Quota-Mechanism	Grouped	
	Time-Quota-Type	Enumerated	
	Early-Media-Description	Grouped	
	SDP-TimeStamps	Grouped	
	SDP-Offer-Timestamp	Time	
	SDP-Answer-Timestamp	Time	
	AF-Correlation-Information	Grouped	
	PoC-Session-Initiation-type	Enumerated	
	Offline-Charging	Grouped	
	User-Participating-Type	Enumerated	
	Alternate-Charged-Party-Address IMS-Communication-Service-Identifier	UTF8String	
	Number-Of-Received-Talk-Bursts	UTF8String	
	Number-Of-Received-Taik-Bursts Number-Of-Talk-Bursts	Unsigned32	
		Unsigned32 Unsigned32	
	Received-Talk-Burst-Time Received-Talk-Burst-Volume	Unsigned32 Unsigned32	
	Talk-Burst-Time	Unsigned32	
	Talk-Burst-Volume	Unsigned32	
	Media-Initiator-Party	UTF8String	
	The AVP codes from 1289 to 1399 are reserved for TS 32.299	OTFOSITING	
	Subscription-Data	Grouped	
	Terminal-Information	Grouped	
1401		UTF8String	
	Software-Version	UTF8String	
	QoS-Subscribed	UTF8String	
	ULR-Flags	Unsigned32	
	ULA-Flags	Unsigned32	
	Visited PLMN Id	OctetString	
	Requested-EUTRAN-Authentication-Info	Grouped	
	Requested-UTRAN- GERAN-Authentication-Info	Grouped	
	Number-Of-Requested-Vectors	Unsigned32	
	Re-Synchronization-Info	OctetString	29.272 [21]
	Immediate-Response-Preferred	Unsigned32	
	Authentication-Info	Grouped	
	E-UTRAN-Vector	Grouped	
	UTRAN-Vector	Grouped	
	GERAN-Vector	Grouped	
	Network-Access-Mode	Enumerated	
	HPLMN-ODB	Enumerated	
	Item-Number	Unsigned32	
	Cancellation-Type	Enumerated	
	DSR-Flags	Unsigned32	
1741	port i ago	Onsignedoz	

1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
1426 Access-Restriction-Data	UTF8String	
1427 APN-OI-Replacement	UTF8String	
1428 All-APN-Configurations-Included-Indicator	Enumerated	
1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile	Grouped	
1432 VPLMN-Dynamic-Address-Allowed	Enumerated	
1433 STN-SR	OctetString	
1434 Alert-Reason	Enumerated	
1435 AMBR	Grouped	
1436 CSG-Subscription-Data	Grouped	
1437 CSG-ld	Unsigned32	
1438 PDN-GW-Allocation-Type	Enumerated	
1439 Expiration-Date	Time	
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32	
1441 IDA-Flags	Unsigned32	
1442 PUA-Flags	Unsigned32	
1443 NOR-Flags	Unsigned32	
1444 User-Id	UTF8String	
1445 Equipment-Status	Enumerated	
1446 Regional-Subscription-Zone-Code	OctetString	
1447 RAND	OctetString	
1448 XRES	OctetString	
1449 AUTN	OctetString	
1450 KASME	OctetString	
1451 Reserved	-	
1452 Trace-Collection-Entity	Address	
1453 Kc	OctetString	
1454 SRES	OctetString	
1455 Reserved		
1456 PDN-Type	Enumerated	
1456 PDN-Type 1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated Enumerated	
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data	Enumerated Grouped	
1457 Roaming-Restricted-Due-To-Unsupported-Feature1458 Trace-Data1459 Trace-Reference	Enumerated	
 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 	Enumerated Grouped OctetString	
 1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 	Enumerated Grouped OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth	Enumerated Grouped OctetString Enumerated	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List	Enumerated Grouped OctetString - Enumerated OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List	Enumerated Grouped OctetString - Enumerated OctetString OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List	Enumerated Grouped OctetString - Enumerated OctetString OctetString OctetString OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString OctetString Grouped	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString OctetString Grouped Enumerated	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString OctetString Frouped Enumerated Grouped Grouped	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Grouped OctetString OctetString Grouped Grouped OctetString OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString Grouped Grouped OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString Grouped Enumerated Grouped Grouped OctetString Grouped OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString Grouped Grouped Grouped OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException 1476 SS-Code	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString Grouped Grouped OctetString Grouped OctetString Grouped OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException 1476 SS-Code 1477 SS-Status	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString Grouped OctetString Grouped OctetString Grouped OctetString OctetString OctetString OctetString OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException 1476 SS-Code 1477 SS-Status 1478 Notification-To-UE-User	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString Grouped OctetString Grouped OctetString Grouped Grouped Grouped Grouped OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException 1476 SS-Code 1477 SS-Status 1478 Notification-To-UE-User 1479 External-Client	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString Grouped OctetString Grouped OctetString Grouped Grouped Grouped OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException 1476 SS-Code 1477 SS-Status 1478 Notification-To-UE-User 1479 External-Client 1480 Client-Identity	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString Grouped OctetString Grouped OctetString Grouped Grouped Grouped OctetString OctetString OctetString OctetString Enumerated Grouped OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException 1476 SS-Code 1477 SS-Status 1478 Notification-To-UE-User 1479 External-Client 1480 Client-Identity 1481 GMLC-Restriction	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString OctetString OctetString OctetString OctetString OctetString Grouped OctetString Grouped Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString OctetString Grouped OctetString OctetString DctetString OctetString Enumerated Grouped OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException 1476 SS-Code 1477 SS-Status 1478 Notification-To-UE-User 1479 External-Client 1480 Client-Identity 1481 GMLC-Restriction 1482 PLMN-Client	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString OctetString OctetString OctetString OctetString OctetString Grouped OctetString Grouped Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString OctetString Grouped OctetString Enumerated Enumerated Enumerated	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException 1476 SS-Code 1477 SS-Status 1478 Notification-To-UE-User 1479 External-Client 1480 Client-Identity 1481 GMLC-Restriction 1482 PLMN-Client 1483 Service-Type	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString OctetString OctetString OctetString OctetString OctetString Grouped OctetString Grouped Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString CotetString Fouped OctetString Enumerated Grouped OctetString Enumerated Grouped OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException 1476 SS-Code 1477 SS-Status 1478 Notification-To-UE-User 1479 External-Client 1480 Client-Identity 1481 GMLC-Restriction 1482 PLMN-Client 1483 Service-Type 1484 ServiceTypeIdentity	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString OctetString OctetString OctetString OctetString OctetString Grouped Grouped Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString OctetString Enumerated Grouped OctetString Enumerated Grouped OctetString Enumerated Grouped OctetString	
1457 Roaming-Restricted-Due-To-Unsupported-Feature 1458 Trace-Data 1459 Trace-Reference 1460 Reserved 1461 Reserved 1462 Trace-Depth 1463 Trace-NE-Type-List 1464 Trace-Interface-List 1465 Trace-Event-List 1466 OMC-Id 1467 GPRS-Subscription-Data 1468 Complete-Data-List-Included-Indicator 1469 PDP-Context 1470 PDP-Type 1471 3GPP2-MEID 1472 Specific-APN-Info 1473 LCS-Info 1474 GMLC-Number 1475 LCS-PrivacyException 1476 SS-Code 1477 SS-Status 1478 Notification-To-UE-User 1479 External-Client 1480 Client-Identity 1481 GMLC-Restriction 1482 PLMN-Client 1483 Service-Type	Enumerated Grouped OctetString Enumerated OctetString OctetString OctetString OctetString Grouped Enumerated Grouped OctetString OctetString OctetString OctetString OctetString OctetString OctetString Grouped OctetString Grouped Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString Grouped OctetString CotetString Fouped OctetString Enumerated Grouped OctetString Enumerated Grouped OctetString	

4407 70 0 1		
1487 TS-Code	Enumerated	
1488 Call-Barring-Info	Grouped	
1489 SGSN-Number	OctetString	
1490 IDR-Flags	Unsigned32	
1491 ICS-Indicator	Enumerated	
1492 IMS-Voice-Over-PS-Sessions-Supported	Enumerated	
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated	
1494 Last-UE-Activity-Time	Time	
1495 EPS-User-State	Grouped	
1496 EPS-Location-Information	Grouped	
1497 MME-User-State	Grouped	
1498 SGSN-User-State	Grouped	
1499 User-State	Enumerated	
1433 0361-01416	Endinerated	
1500 Non-3GPP-User-Data	Crounad	
	Grouped	
1501 Non-3GPP-IP-Access	Enumerated	
1502 Non-3GPP-IP-Access-APN	Enumerated	
1503 AN-Trusted	Enumerated	
1504 ANID	UTF8String	
1505 Trace-Info	Grouped	
1506 MIP-FA-RK	OctetString	
1507 MIP-FA-RK-SPI	Unsigned32	
1508 PPR-Flags	Unsigned32	
1509 WLAN-Identifier	Grouped	
1510 TWAN-Access-Info	Grouped	
1511 Access-Authorization-Flags	Unsigned32	
1512 TWAN-Default-APN-Context-Id	Unsigned32	
1513 Reserved		
1514 Reserved	_	
1515 Reserved	_	
1516 Full-Network-Name	OctetString	
1517 Short-Network-Name	OctetString	00 070 [00]
1518 AAA-Failure-Indication	Unsigned32	29.273 [20]
1519 Transport-Access-Type	Enumerated	
1520 DER-Flags	Unsigned32	
1521 DEA-Flags	Unsigned32	
1522 RAR-Flags	Unsigned32	
1523 DER-S6b-Flags	Unsigned32	
1524 SSID	UTF8String	
1525 HESSID	UTF8String	
1526 Access-Network-Info	Grouped	
1527 TWAN-Connection-Mode	Unsigned32	
1528 TWAN-Connectivity-Parameters	Grouped	
1529 Connectivity-Flags	Unsigned32	
1530 TWAN-PCO	OctetString	
1531 TWAG-CP-Address	Address	
1532 TWAG-UP-Address	UTF8String	
1533 TWAN-S2a-Failure-Cause	Unsigned32	
1534 SM-Back-Off-Timer		
	Unsigned32	
1535 WLCP-Key 318 3GPP-AAA-Server-Name	OctetString	
	DiameterIdentity	
Note 1: The AVP codes from 1536 to 1599 are reserved for TS 29.273	TC 00 004 and in a court f	
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP	13 29.234 and is now defil	ieu in 3GPP 15
29.273 from Rel-12.		
1600 MME-Location-Information	Grouped	
1601 SGSN-Location-Information	Grouped	
1602 E-UTRAN-Cell-Global-Identity	OctetString	
1603 Tracking-Area-Identity	OctetString	
1604 Cell-Global-Identity	OctetString	
1605 Routing-Area-Identity	OctetString	29.272 [21]
1606 Location-Area-Identity	OctetString	
1607 Service-Area-Identity	OctetString	
1608 Geographical-Information	OctetString	
1609 Geodetic-Information	OctetString	
1610 Current-Location-Retrieved	Enumerated	

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1611 Age-Of-Location-Information	Unsigned32	
1612 Active-APN	Grouped	
1613 SIPTO-Permission	Enumerated	
1614 Error-Diagnostic	Enumerated	
1615 UE-SRVCC-Capability	Enumerated	
1616 MPS-Priority	Unsigned32	
1617 VPLMN-LIPA-Allowed	Enumerated	
1618 LIPA-Permission	Enumerated	
1619 Subscribed-Periodic-RAU-TAU-Timer	Unsigned32	
1620 Ext-PDP-Type	OctetString	
1621 Ext-PDP-Address	Address	
1622 MDT-Configuration	Grouped	
1623 Job-Type	Enumerated	
1624 Area-Scope	Grouped	
1625 List-Of-Measurements	Unsigned32	
1626 Reporting-Trigger	Unsigned32	
1627 Report-Interval	Enumerated	
1628 Report-Amount	Enumerated	
1629 Event-ThresholdRSRP	Unsigned32	
1630 Event-ThresholdRSRQ	Unsigned32	
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	
1661 Event-Threshold-Event-1F	Integer32	
1662 Event-Threshold-Event-1I	Integer32	
1663 Restoration-Priority	Unsigned32	
1664 SGs-MME-Identity	UTF8String	
1665 SIPTO-Local-Network-Permission	Unsigned32	
1666 Coupled-Node-Diameter-ID	DiameterIdentity	
1667 WLAN-offloadability	Grouped	
1668 WLAN-offloadability-EUTRAN	Unsigned32	
1669 WLAN-offloadability-UTRAN	Unsigned32	
1670 Reset-ID	OctetString	
1671 MDT-Allowed-PLMN-Id	OctetString	
Note: The AVP codes from 1672 to 1699 are reserved for TS 29.272.		
2000 SMS-Information	Grouped	
2001 Data-Coding-Scheme	Integer32	32.299 [5]
2002 Destination-Interface	Grouped	
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2003 Interface-Id	UTF8String
2004 Interface-Port	UTF8String
2005 Interface-Text	UTF8String
2006 Interface-Type	Enumerated
2007 SM-Message-Type	Enumerated
2008 Originating-SCCP-Address	Address
2009 Originator-Interface	Grouped
2010 Recipient-SCCP-Address	Address
2011 Reply-Path-Requested	Enumerated
2012 SM-Discharge-Time	Time
2013 SM-Protocol-ID	OctetString
2014 SM-Status	OctetString
2015 SM-User-Data-Header	OctetString
2016 SMS-Node	Enumerated
2017 SMSC-Address	Address
2018 Client-Address	Address
2019 Number-of-Messages-Sent	Unsigned32
2020 Low-Balance-Indication	Enumerated
2021 Remaining-Balance	Grouped
2022 Refund-Information	OctetString
2023 Carrier-Select-Routing-Information	UTF8String
2024 Number-Portability-Routing-Information	UTF8String
2025 PoC-Event-Type 2026 Recipient-Info	Enumerated
2026 Recipient-inio 2027 Originator-Received-Address	Grouped
2028 Recipient-Received-Address	Grouped
	Grouped
2029 SM-Service-Type 2030 MMTel-Information	Enumerated
2031 MMTel-Sservice-Type	Grouped Unsigned32
2032 Service-Mode	Unsigned32
2033 Subscriber-Role	Enumerated
2034 Number-Of-Diversions	Unsigned32
2035 Associated-Party-Address	UTF8String
2036 SDP-Type	Enumerated
2037 Change-Condition	Integer32
2038 Change-Time	Time
2039 Diagnostics	Integer32
2040 Service-Data-Container	Grouped
2041 Start-Time	Time
2042 Stop-Time	Time
2043 Time-First-Usage	Time
2044 Time-Last-Usage	Time
2045 Time-Usage	Unsigned32
2046 Traffic-Data-Volumes	Grouped
2047 Serving-Node-Type	Enumerated
2048 Supplementary-Service	Grouped
2049 Participant-Action-Type	Enumerated
2050 PDN-Connection-Charging-ID	Unsigned32
2051 Dynamic-Address-Flag	Enumerated
2052 Accumulated-Cost	Grouped
2053 AoC-Cost-Information	Grouped
2054 AoC-Information	Grouped
2055 AoC-Request-Type	Enumerated
2056 Current-Tariff	Grouped
2057 Next-Tariff	Grouped
2058 Rate-Element	Grouped
2059 Scale-Factor	Grouped
2060 Tariff-Information	Grouped
2061 Unit-Cost	Grouped
2062 Incremental-Cost	Grouped
2063 Local-Sequence-Number	Unsigned32
2064 Node-Id	UTF8String
2065 SGW-Change	Enumerated
2066 Charging-Characteristic-Selection-Mode	Enumerated
2067 SGW-Address	Address

		T	
	Dynamic-Address-Flag-Extension	Enumerated	
	The AVP codes from 2069 to 2099 are reserved for TS 32.299.		
	reserved	-	
	Application-Server-ID	UTF8String	
	Application-Service-Type	Enumerated	
	Application-Session-ID	Unsigned32	
	Delivery-Status	UTF8String	
	reserved	-	
	reserved	-	
	reserved	-	
2108	reserved	-	
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	
	DCD-Information	Grouped	
	Content-ID	UTF8String	
	Content-provider-ID	UTF8String	
	Charge-Reason-Code	Enumerated	
	The AVP codes from 2119 to 2199 are reserved for TS 32.299.		
	Subsession-Decision-Info	Grouped	
	Subsession-Enforcement-Info	Grouped	
	Subsession-Id	Unsigned32	
	Subsession-Operation	Enumerated	
	Multiple-BBERF-Action	Enumerated	29.215 [22]
	UE-Local-IPv6-Prefix	OctetString	20.210 [22]
	DRA-Deployment	Enumerated	
	PCRF-Address	DiameterIdentity	
	DRA-Binding	Enumerated	
	The AVP codes from 2209 to 2299 are reserved for TS 29.215.	Lituitietateu	
	reserved		
	SIP-Request-Timestamp-Fraction	Unsigned32	
	SIP-Response-Timestamp-Fraction	Unsigned32	
	Online-Charging-Flag	Enumerated	
2304	CUG-Information CUG-Information	OctetString	
2304 2305	CUG-Information Real-Time-Tariff-Information	OctetString Grouped	
2304 2305 2306	CUG-Information Real-Time-Tariff-Information Tariff-XML	OctetString Grouped UTF8String	
2304 2305 2306 2307	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address	OctetString Grouped UTF8String Address	
2304 2305 2306 2307 2308	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag	OctetString Grouped UTF8String Address Enumerated	
2304 2305 2306 2307 2308 2309	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration	OctetString Grouped UTF8String Address Enumerated Time	
2304 2305 2306 2307 2308 2309 2310	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format	OctetString Grouped UTF8String Address Enumerated Time Enumerated	
2304 2305 2306 2307 2308 2309 2310 2311	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service	OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated	32,299 [5]
2304 2305 2306 2307 2308 2309 2310 2311 2312	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type	OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped	32.299 [5]
2304 2305 2306 2307 2308 2310 2311 2312 2313	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type	OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped Enumerated	32.299 [5]
2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information	OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped Enumerated Grouped Enumerated Grouped	32.299 [5]
2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency	OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped Enumerated	32.299 [5]
2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved	OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped Enumerated Grouped Unsigned32	32.299 [5]
2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode	OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped Enumerated Grouped Unsigned32 - Enumerated	32.299 [5]
2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode CSG-Membership-Indication	OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped Enumerated Grouped Unsigned32 - Enumerated Enumerated	32.299 [5]
2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode CSG-Membership-Indication User-CSG-Information	OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped Enumerated Grouped Unsigned32 - Enumerated Enumerated Grouped Unsigned32 - Fourmerated Grouped Enumerated Grouped Unsigned32	32.299 [5]
2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode CSG-Membership-Indication	OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped Enumerated Grouped Unsigned32 - Enumerated Enumerated	32.299 [5]
2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode CSG-Membership-Indication User-CSG-Information	OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped Enumerated Grouped Unsigned32 - Enumerated Enumerated Grouped Unsigned32 - Fourmerated Grouped Enumerated Grouped Unsigned32	32.299 [5]
2304 2305 2306 2307 2308 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode CSG-Membership-Indication User-CSG-Information Outgoing-Session-Id	OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped Enumerated Unsigned32 - Enumerated Enumerated Grouped Unsigned32 - Unsigned32	32.299 [5]
2304 2305 2306 2307 2308 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode CSG-Membership-Indication User-CSG-Information Outgoing-Session-Id Initial-IMS-Charging-Identifier	OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped Enumerated Unsigned32 - Enumerated Enumerated Unsigned32 - Unsigned32 - Unsigned32 - Unsigned32 - Unsigned32 - Unsigned32 - Unsigned32	32.299 [5]
2304 2305 2306 2307 2308 2310 2311 2312 2313 2314 2315 2316 2317 2318 2320 2321 2322 2323	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode CSG-Membership-Indication User-CSG-Information Outgoing-Session-Id Initial-IMS-Charging-Identifier IMS-Emergency-Indicator	OctetString Grouped UTF8String Address Enumerated Time Enumerated Enumerated Grouped Enumerated Unsigned32 - Enumerated Enumerated Unsigned32 - Unsigned32 - Unsigned32 - Unsigned32 - Unsigned32 - Unsigned32 - Unsigned32	32.299 [5]
2304 2305 2306 2307 2308 2310 2311 2312 2313 2314 2315 2316 2317 2318 2320 2321 2322 2323	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode CSG-Membership-Indication User-CSG-Information Outgoing-Session-Id Initial-IMS-Charging-Identifier IMS-Emergency-Indicator MBMS-Charged-Party The AVP codes from 2324 to 2399 are reserved for TS 32.299.	OctetString Grouped UTF8String Address Enumerated Time Enumerated Grouped Enumerated Grouped Unsigned32 - Enumerated Enumerated Unsigned32 - Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated	32.299 [5]
2304 2305 2306 2307 2308 2310 2311 2312 2313 2314 2315 2316 2317 2318 2320 2321 2322 2323 Note: 2400	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode CSG-Membership-Indication User-CSG-Information Outgoing-Session-Id Initial-IMS-Charging-Identifier IMS-Emergency-Indicator MBMS-Charged-Party The AVP codes from 2324 to 2399 are reserved for TS 32.299. LMSI	OctetString Grouped UTF8String Address Enumerated Time Enumerated Grouped Enumerated Grouped Unsigned32 - Enumerated Enumerated Unsigned32 - Enumerated Enumerated Enumerated Enumerated Grouped UTF8String UTF8String Enumerated	32.299 [5]
2304 2305 2306 2307 2308 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 Note: 2400 2401	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode CSG-Membership-Indication User-CSG-Information Outgoing-Session-Id Initial-IMS-Charging-Identifier IMS-Emergency-Indicator MBMS-Charged-Party The AVP codes from 2324 to 2399 are reserved for TS 32.299. LMSI Serving-Node	OctetString Grouped UTF8String Address Enumerated Time Enumerated Grouped Enumerated Grouped Unsigned32 - Enumerated Grouped Unsigned32 - Enumerated Enumerated Grouped Unsigned32 - OctetString Grouped	32.299 [5]
2304 2305 2306 2307 2308 2310 2311 2312 2313 2314 2315 2316 2317 2318 2320 2321 2322 2323 Note: 2400 2401 2402	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode CSG-Membership-Indication User-CSG-Information Outgoing-Session-Id Initial-IMS-Charging-Identifier IMS-Emergency-Indicator MBMS-Charged-Party The AVP codes from 2324 to 2399 are reserved for TS 32.299. LMSI Serving-Node MME-Name	OctetString Grouped UTF8String Address Enumerated Time Enumerated Grouped Enumerated Grouped Unsigned32 - Enumerated Grouped Unsigned32 - Enumerated Enumerated Grouped Unsigned32 - OctetString Grouped UTF8String UTF8String UTF8String Enumerated	
2304 2305 2306 2307 2308 2310 2311 2312 2313 2314 2315 2316 2317 2318 2320 2321 2322 2323 Note: 2400 2401 2402 2403	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode CSG-Membership-Indication User-CSG-Information Outgoing-Session-Id Initial-IMS-Charging-Identifier IMS-Emergency-Indicator MBMS-Charged-Party The AVP codes from 2324 to 2399 are reserved for TS 32.299. LMSI Serving-Node MME-Name MSC-Number	OctetString Grouped UTF8String Address Enumerated Time Enumerated Grouped Enumerated Grouped Unsigned32 - Enumerated Grouped Unsigned32 - Enumerated Grouped Unserated Grouped Unserated Grouped UTF8String UTF8String UTF8String Enumerated OctetString Grouped DiameterIdentity OctetString	32.299 [5] 29.173 [25]
2304 2305 2306 2307 2308 2310 2311 2312 2313 2314 2315 2316 2317 2318 2320 2321 2322 2323 Note: 2400 2401 2402 2403 2404	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode CSG-Membership-Indication User-CSG-Information Outgoing-Session-Id Initial-IMS-Charging-Identifier IMS-Emergency-Indicator MBMS-Charged-Party The AVP codes from 2324 to 2399 are reserved for TS 32.299. LMSI Serving-Node MME-Name MSC-Number LCS-Capabilities-Sets	OctetString Grouped UTF8String Address Enumerated Time Enumerated Grouped Enumerated Grouped Unsigned32 - Enumerated Grouped Unsigned4 Unsigned52 - Enumerated Grouped UTF8String UTF8String UTF8String Enumerated OctetString Grouped DiameterIdentity OctetString Unsigned32	
2304 2305 2306 2307 2308 2310 2311 2312 2313 2314 2315 2316 2317 2318 2320 2321 2322 2323 Note: 2400 2401 2402 2403 2404 2405	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode CSG-Membership-Indication User-CSG-Information Outgoing-Session-Id Initial-IMS-Charging-Identifier IMS-Emergency-Indicator MBMS-Charged-Party The AVP codes from 2324 to 2399 are reserved for TS 32.299. LMSI Serving-Node MME-Name MSC-Number LCS-Capabilities-Sets GMLC-Address	OctetString Grouped UTF8String Address Enumerated Time Enumerated Grouped Enumerated Grouped Unsigned32 Enumerated Grouped Unsigned4 Unsigned52 Enumerated Grouped UTF8String UTF8String Enumerated OctetString Grouped DiameterIdentity OctetString Unsigned32 Address	
2304 2305 2306 2307 2308 2310 2311 2312 2313 2314 2315 2316 2317 2318 2320 2321 2322 2323 Note: 2400 2401 2402 2403 2404 2405 2406	CUG-Information Real-Time-Tariff-Information Tariff-XML MBMS GW-Address IMSI-Unauthenticated-Flag Account-Expiration AoC-Format AoC-Service AoC-Service-Obligatory-Type AoC-Service-Type AoC-Subscription-Information Preferred-AoC-Currency Reserved CSG-Access-Mode CSG-Membership-Indication User-CSG-Information Outgoing-Session-Id Initial-IMS-Charging-Identifier IMS-Emergency-Indicator MBMS-Charged-Party The AVP codes from 2324 to 2399 are reserved for TS 32.299. LMSI Serving-Node MME-Name MSC-Number LCS-Capabilities-Sets	OctetString Grouped UTF8String Address Enumerated Time Enumerated Grouped Enumerated Grouped Unsigned32 - Enumerated Grouped Unsigned4 Unsigned52 - Enumerated Grouped UTF8String UTF8String UTF8String Enumerated OctetString Grouped DiameterIdentity OctetString Unsigned32	

2009 GSN-Name	2408	MME-Realm	DiameterIdentity	
2410 SGSN-Realm				
2411 RIA-Flags				
Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173. 2500 SLQ-Location-Type				
2500 LCS-PS-Client-Name Grouped			OffsignedSz	
2501 LCS-EPS-Client-Name			Enumerated	
Grouped Gr				
2503 LCS-Priority				
2504 CiS-QoS Grouped				
2505 Vertical-Accuracy				
Designed Designed				
2507 Vertical-Requested				
Section Sect				
Response-Time				
Supported-GAD-Shapes				
SETI LCS-Codeword				
2512 LCS-Privacy-Check				
2514 Age-Of-Location-Estimate Unsigned32 2515 Velocity-Estimate OctelString 2516 EUTRAN-Positioning-Data OctelString 2517 ECG CotelString 2518 Location-Event Enumerated 2519 Pseudonym-Indicator Enumerated 2520 LCS-Privacy-Check-Non-Session Grouped 2521 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Resision Grouped 2523 LCS-Qos-Class Enumerated 2524 GERAN-Positioning-Info Grouped 2525 GERAN-Positioning-Info Grouped 2526 GERAN-Positioning-Data OctelString 2526 GERAN-Positioning-Data OctelString 2529 UTRAN-Positioning-Data OctelString 2529 UTRAN-Positioning-Data OctelString 2529 UTRAN-AGNSS-Positioning-Data OctelString 2529 UTRAN-Session OctelString 2520 UTRAN-Positioning-Data OctelString 2520 UTRAN-AGNSS-Positioning-Data OctelString 2521 LCS-Gos-Class Unsigned32 2521 UTRAN-Positioning-Data OctelString 2522 UTRAN-Positioning-Data OctelString 2523 Area-Hore-Number OctelString 2524 GERAN-GANSS-Positioning-Data OctelString 2525 Deferred-Location-Type Unsigned32 2531 LOS-Reference-Number OctelString 2532 OctelString OctelString 2533 Area-Event-Info Grouped 2534 Area-Poelinition Grouped 2535 Area-Identification Grouped 2536 Area-Information Grouped 2537 Area-Identification Grouped 2538 Occurrence-Info Enumerated 2539 Periodic-LDR-Information Grouped 2540 Periodic-LDR-Information Grouped 2541 Reporting-Interval Unsigned32 2542 Reporting-Interval Unsigned32 2543 Reporting-Interval Unsigned32 2544 PLR-Flags Unsigned32 2545 Poetrod-LDR-Information Enumerated 2546 PLA-Flags Unsigned32 2547 Deferred-Unit-R-Data Grouped 2548 Errange Unsigned32 2549 Periodic-Location-Support-Indicator Enumerated 2540 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 ESMLC-Cell-Info Grouped 2553 Gel				
2514 Ago-Of-Location-Estimate	2512	LCS-Privacy-Check		
2516 EUTRAN-Positioning-Data OctelString 2517 ECGI OctelString 2518 EUTRAN-Positioning-Data OctelString 2519 Pseudonym-Indicator Enumerated 2520 LCS-Service-Type-ID Unsigned32 2521 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Session Grouped 2522 LCS-Privacy-Check-Session Grouped 2523 LCS-QoS-Class Enumerated 2524 GERAN-Positioning-Info Grouped 2525 GERAN-Positioning-Data OctelString 2526 GERAN-Rostistioning-Data OctelString 2527 UTRAN-Positioning-Data OctelString 2528 UTRAN-Positioning-Data OctelString 2529 UTRAN-GANSS-Positioning-Data OctelString 2529 UTRAN-GANSS-Positioning-Data OctelString 2529 UTRAN-Son-Son-Son-Son-Son-Son-Son-Son-Son-Son				
2516 EUTRAN-Positioning-Data CotelString				
2518 Location-Event				
2518 Location-Event				
Pseudonym-Indicator				
LCS-Service-Type-ID				
LCS-Privacy-Check-Non-Session Grouped				
2522 LCS-Privacy-Check-Session Grouped 2523 LCS-QoS-Class Enumerated 2524 GERAN-Positioning-Info Grouped 2525 GERAN-Positioning-Data OctetString 2526 GERAN-Sessitioning-Data OctetString 2527 UTRAN-Positioning-Data OctetString 2528 UTRAN-Positioning-Data OctetString 2529 UTRAN-Positioning-Data OctetString 2529 UTRAN-Positioning-Data OctetString 2529 UTRAN-Sessitioning-Data OctetString 2520 LRF-Flags Unsigned32 2521 LCS-Reference-Number OctetString 2522 Deferred-Location-Type Unsigned32 2523 Deferred-Location-Type Unsigned32 2524 Area-Definition Grouped 2525 Area Grouped 2526 Area-Type Unsigned32 2527 Area-Identification Grouped 2528 Octermene-Info Grouped 2529 Unsigned32 2520 Deferred-MT-LR-Data Unsigned32 2521 Reporting-PLMN-List Grouped 2522 Grouped Grouped 2523 Reporting-PLMN-List Grouped 2524 PLR-Flags Unsigned32 2526 PLR-Flags Unsigned32 2527 Deferred-MT-LR-Data Grouped 2528 Call-Plags Unsigned32 2529 Plags Unsigned32 2520 Deferred-MT-LR-Data Grouped 2521 Septimation Grouped 2522 Septimation Grouped 2523 Call-Portion-ID Unsigned32 2525 Periodic-Location-Support-Indicator Enumerated 2526 PLR-Flags Unsigned32 2525 Periodic-Location-Support-Indicator Enumerated 2520 Deferred-MT-R-Data Grouped 2531 Call-Portion-ID Unsigned32 2532 Call-Portion-ID Unsigned32 2533 Call-Portion-ID Unsigned32 2534 RATT-RCID OctetString 2535 OctetString 2536 MS-Application-Reference-Identifier UTF8String 2530 Deferity-Indicator Enumerated 2531 Deferity-Indicator Enumerated 2532 Deferity-Indicator Enumerated 2533 Deferity-Indicator Enumerated 2544 PLR-Flags Unsigned32 2555 Periodic-Location-Reference-Identifier UTF8String 2545 Deferity-Indicator Enumerated				
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2524 GERAN-Positioning-Data OctetString 2525 GERAN-Positioning-Data OctetString 2526 GERAN-GANSS-Positioning-Data OctetString 2527 UTRAN-Positioning-Info Grouped 2528 UTRAN-Positioning-Data OctetString 2529 UTRAN-GANSS-Positioning-Data OctetString 2530 LRR-Flags Unsigned32 2531 LCS-Reference-Number OctetString 2532 Deferred-Location-Type Unsigned32 2533 Area-Event-Info Grouped 2534 Area-Definition Grouped 2535 Area Grouped 2536 Area-Type Unsigned32 2537 Area-Information Grouped 2538 Occurrence-Info Enumerated 2539 Interval-Time Unsigned32 2540 Periodic-LDR-Information Grouped 2541 Reporting-Amount Unsigned32 2542 Reporting-Interval Unsigned32 2543 Reporting-Informatio				
2525 GERAN-Positioning-Data OctetString 2526 GERAN-GANSS-Positioning-Data OctetString 2527 UTRAN-Positioning-Info Grouped 2528 UTRAN-Positioning-Data OctetString 2529 UTRAN-Positioning-Data OctetString 2520 UTRAN-Positioning-Data OctetString 2520 UTRAN-GANSS-Positioning-Data OctetString 2521 LCS-Reference-Number OctetString 2522 UTRAN-GANSS-Positioning-Data OctetString 2523 LCS-Reference-Number OctetString 2524 UTRAN-GANSS-Positioning-Data OctetString 2525 UTRAN-GANSS-Positioning-Data OctetString 2526 UTRAN-GANSS-Positioning-Data OctetString 2520 LCS-Reference-Number OctetString 2521 UTRAN-GANSS-Positioning-Data OctetString 2522 UTRAN-GANSS-Positioning-Data OctetString 2523 UTRAN-GANSS-Positioning-Data OctetString 2523 UTRAN-GANSS-Positioning-Data OctetString 2523 UTRAN-GANSS-Positioning-Data OctetString 2523 Unsigned32 OctetString 2523 Area-Logal OctetString 2524 Area-Definition Grouped 2525 Grouped 2526 Area-Type Unsigned32 2526 Area-Type Unsigned32 2527 Unsigned32 Unsigned32 2528 Area-Identification Grouped 2529 Unsigned32 Unsigned32 2520 Deferred-MT-LR-Data Grouped 2521 OctetString Unsigned32 2524 PLA-Flags Unsigned32 2524 PLA-Flags Unsigned32 2524 PLA-Flags Unsigned32 2525 Deferred-MT-LR-Data Grouped 2526 PLA-Flags Unsigned32 2527 OctetString Unsigned32 2528 Deferred-MT-LR-Data Grouped 2529 Deferred-MT-LR-Data Grouped 2520 Deferred-MT-LR-Data Grouped 2521 Company Unsigned32 2522 Unsigned32 Unsigned32 2523 Unsigned33 Unsigned33 2524 Unsigned33 Unsigned33 2525 Unsigned33 Unsigned33 2526 Deferred-MT-LR-Data Grouped 2527 Unsigned33 Unsigned33 2528 Unsigned33 Unsigned33 2529 Unsigned33 Unsigned33 2529 Unsigned33 Unsigned33 2529 Unsigned33 Unsigned33 2520 Unsigned33 Unsigned33 2520 Unsigned33 Unsigned33 25	2523	LCS-QoS-Class	Enumerated	
2526 GERAN-GANSS-Positioning-Data OctetString 2527 UTRAN-Positioning-Info Grouped 2528 UTRAN-Positioning-Data OctetString 2529 UTRAN-GANSS-Positioning-Data OctetString 2520 UTRAN-GANSS-Positioning-Data OctetString 2521 LCS-Reference-Number OctetString 2522 Deferred-Location-Type Unsigned32 2523 Deferred-Location-Type Unsigned32 2523 Area-Event-Info Grouped 2524 Area-Definition Grouped 2525 Area Grouped 2526 Area-Type Unsigned32 2527 Area-Identification Grouped 2528 Occurrence-Info Grouped 2529 Interval-Time Unsigned32 2520 Interval-Time Unsigned32 2521 Reporting-Amount Unsigned32 2522 Reporting-Interval Unsigned32 2524 Reporting-Interval Unsigned32 2524 Reporting-Interval Unsigned32 2524 PLA-Flags Unsigned32 2524 PLA-Flags Unsigned32 2524 PLA-Flags Unsigned32 2525 Deferred-MT-LR-Data Grouped 2526 PLA-Flags Unsigned32 2527 Deferred-MT-LR-Data Grouped 2528 Unsigned32 Unsigned32 2529 Periodic-Location-Support-Indicator Enumerated 2520 Periodic-Location-Support-Indicator Enumerated 2520 Cell-Portion-ID Unsigned32 2521 SEMLC-Cell-Info Grouped 2522 ESMLC-Cell-Info Grouped 2523 Cell-Portion-ID Unsigned32 2524 Cell-Portion-ID Unsigned32 2525 Transferred Grouped 2525 Cell-Portion-ID Unsigned32 2526 Cell-Portion-ID Unsigned32 2527 Cell-Portion-ID Unsigned32 2528 Cell-Portion-ID Unsigned32 2529 Cell-Portion-ID Unsigned32 2520 Cell-Portion-ID Unsigned32 2520 Cell-Portion-Reference-Identifier UTF8String 2620 Low-Priority-Indicator Enumerated 2521 Cell-Portion-Indicator Enumerated 2522 Cell-Portion-Indicator Enumerated 2523 Cell-Portion-Reference-Identifier UTF8String 2520 Coverient UTF8String 2530 Coverient UTF8String 2540 Coverient UTF8String 2540 Coverient Unsigned32 2541 Coverient Coverient Coverient Coverient Cove	2524	GERAN-Positioning-Info	Grouped	
2527 UTRAN-Positioning-Info Grouped 2528 UTRAN-Positioning-Data OctetString 2529 UTRAN-GANSS-Positioning-Data OctetString 2530 LRR-Flags Unsigned32 2531 LCS-Reference-Number OctetString 2532 Deferred-Location-Type Unsigned32 2533 Area-Event-Info Grouped 2534 Area Grouped 2535 Area Grouped 2536 Area-Identification Grouped 2537 Area-Identification Grouped 2538 Decrease-Info Enumerated 2539 Interval-Time Unsigned32 2540 Periodic-LDR-Information Grouped 2541 Reporting-Amount Unsigned32 2542 Reporting-Interval Unsigned32 2543 PLR-Flags Unsigned32 2544 PLR-Flags Unsigned32 2545 PLR-Flags Unsigned32 2546 PLR-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Termination-Cause Unsigned32 2549 LRA-Flags Unsigned32 2550 Priortized-List-Indicator Enumerated	2525	GERAN-Positioning-Data	OctetString	
2527 UTRAN-Positioning-Info Grouped 2528 UTRAN-Positioning-Data OctetString 2529 UTRAN-GANSS-Positioning-Data OctetString 2530 LRR-Flags Unsigned32 2531 LCS-Reference-Number OctetString 2532 Deferred-Location-Type Unsigned32 2533 Area-Event-Info Grouped 2534 Area Grouped 2535 Area Grouped 2536 Area-Identification Grouped 2537 Area-Identification Grouped 2538 Decrease-Info Enumerated 2539 Interval-Time Unsigned32 2540 Periodic-LDR-Information Grouped 2541 Reporting-Amount Unsigned32 2542 Reporting-Interval Unsigned32 2543 PLR-Flags Unsigned32 2544 PLR-Flags Unsigned32 2545 PLR-Flags Unsigned32 2546 PLR-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Termination-Cause Unsigned32 2549 LRA-Flags Unsigned32 2550 Priortized-List-Indicator Enumerated	2526	GERAN-GANSS-Positioning-Data	OctetString	
2528 UTRAN-Positioning-Data OctetString 2529 UTRAN-GANSS-Positioning-Data OctetString 2530 LRR-Flags Unsigned32 2531 LCS-Reference-Number OctetString 2532 Deferred-Location-Type Unsigned32 2533 Area-Event-Info Grouped 2534 Area-Definition Grouped 2535 Area Grouped 2536 Area-Type Unsigned32 2537 Area-Identification Grouped 2538 Occurrence-Info Enumerated Interval-Time Unsigned32 2540 Periodic-LDR-Information Grouped 2541 Reporting-Amount Unsigned32 2542 Reporting-Interval Unsigned32 2543 Reporting-PLMN-List Grouped 2544 PLR-Flags Unsigned32 2545 PLR-Flags Unsigned32 2546 PLA-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Termination-Cause Unsigned32 2549 Periodic-Location-Support-Indicator Enumerated 2550 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator <td></td> <td></td> <td>Grouped</td> <td>29.172 [24]</td>			Grouped	29.172 [24]
Deferred Notes Deferred Notes				
2530 LRR-Flags Unsigned32 2531 LCS-Reference-Number OctetString 2532 Deferred-Location-Type Unsigned32 2533 Area-Event-Info Grouped 2534 Area-Event-Info Grouped 2535 Area Grouped 2536 Area Grouped 2537 Area-Identification Grouped 2538 Area-Identification Grouped 2539 Area-Identification Grouped 2539 Interval-Time Unsigned32 2540 Periodic-LDR-Information Grouped 2541 Reporting-Amount Unsigned32 2542 Reporting-Interval Unsigned32 2543 Reporting-Interval Unsigned32 2544 PLMN-ID-List Grouped 2545 PLR-Flags Unsigned32 2546 PLA-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Termination-Cause Unsigned32 2549 LRA-Flags Unsigned32 2540 PLA-Flags Unsigned32 2541 PLA-Flags Unsigned32 2542 PLA-Flags Unsigned32 2543 Termination-Cause Unsigned32 2544 PLR-Flags Unsigned32 2545 Pioritized-List-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 ESMLC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 2554 IxRTT-RCID OctetString Note: The AVP codes from 2555 to 2599 are reserved for TS 29.172. 2600 Importance Importance Importance 2501 Prioritized-List-Indicator Enumerated 2502 Low-Priority-Indicator Enumerated 2510 Prioritized-List-Indicator Enumerated 2520 Prioritized-List-Indicator Enumerated 2521 Esmuerated Unstantive Unstantive 2522 Esmuerated Unstantive Unstantive 2523 Cell-Portion-ID Unstantive 2524 Cell-Portion-ID Unstantive 2525 Unstantive Unstantive 2526 Unstantive Unstantive 2527 Deferred Unstantive 2528 Termination-Reference-Identifier UTF8String 2529 Enumerated 2530 Enumerated 2531 Enumerated 2532 Enumerated 2533 Enumerated 2534 Enumerated 2535 Enumerated 2536 Enumerated 2537 Enumerated 2538 Enumerated 2539 Prioritized-List-Indicator 2530 Enumerated 2530 Enumerated 2531				
2531 LCS-Reference-Number OctetString 2532 Deferred-Location-Type Unsigned32 2533 Area-Event-Info Grouped 2534 Area-Definition Grouped 2535 Area Grouped 2536 Area-Type Unsigned32 2537 Area-Identification Grouped 2538 Occurrence-Info Grouped 2539 Interval-Time Unsigned32 2540 Periodic-LDR-Information Grouped 2541 Reporting-Amount Unsigned32 2542 Reporting-Amount Unsigned32 2543 Reporting-PLMN-List Grouped 2544 PLMN-ID-List Grouped 2545 PLR-Flags Unsigned32 2546 PLA-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Termination-Cause Unsigned32 2549 LRA-Flags Unsigned32 2549 LRA-Flags Unsigned32 2549 LRA-Flags Unsigned32 2550 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 ESMLC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 2554 IxRTT-RCID OctetString Note: The AVP codes from 2555 to 2599 are reserved for TS 29.172. 2600 Ims-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated 2519 Enumerated UTF8String 2602 Low-Priority-Indicator Enumerated 2520 Enumerated UTF8String 2602 Low-Priority-Indicator Enumerated 2530 Enumerated UTF8String 2602 Low-Priority-Indicator Enumerated 2520 Enumerated UTF8String 2602 Low-Priority-Indicator Enumerated 2531 Enumerated UTF8String 2602 Low-Priority-Indicator Enumerated 2532 Enumerated UTF8String 2602 Low-Priority-Indicator Enumerated 2533 Enumerated UTF8String 2604 Low-Priority-Indicator Enumerated 2549 Enumerated UTF8String 2605 Low-Priority-Indicator Enumerated 25407 Enumerated 25408 Enumerated UTF8String 25409 Enumerated 25409 Enum				
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2534 Area-Definition Grouped 2535 Area Grouped 2536 Area-Type Unsigned32 2537 Area-Identification Grouped 2538 Occurrence-Info Enumerated 2539 Interval-Time Unsigned32 2540 Periodic-LDR-Information Grouped 2541 Reporting-Amount Unsigned32 2542 Reporting-Interval Unsigned32 2543 Reporting-PLMN-List Grouped 2544 PLMN-ID-List Grouped 2545 PLR-Flags Unsigned32 2546 PLA-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Termination-Cause Unsigned32 2549 LRA-Flags Unsigned32 2550 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 ESMLC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 2554 1xRTT-RCID OctetString Note: The AVP codes from 2555 to 2599 are reserved for TS 29.172. 26001 IMS-Application-Reference-Identifier				
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2537 Area-Identification Grouped 2538 Occurrence-Info Enumerated 2539 Interval-Time Unsigned32 2540 Periodic-LDR-Information Grouped 2541 Reporting-Amount Unsigned32 2542 Reporting-PLMN-List Grouped 2543 Reporting-PLMN-List Grouped 2544 PLMN-ID-List Grouped 2545 PLR-Flags Unsigned32 2546 PLA-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Termination-Cause Unsigned32 2549 LRA-Flags Unsigned32 2550 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 ESMLC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 2554 1xRTT-RCID OctetString Note: The AVP codes from 2555 to 2599 are reserved for TS 29.172. 2600 reserved - 2601 IMS-Application-Reference-Identifier UTF8String 32.299 [5]				
2538 Occurrence-Info Enumerated 2539 Interval-Time Unsigned32 2540 Periodic-LDR-Information Grouped 2541 Reporting-Amount Unsigned32 2542 Reporting-Interval Unsigned32 2543 Reporting-PLMN-List Grouped 2544 PLMN-ID-List Grouped 2545 PLR-Flags Unsigned32 2546 PLA-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Termination-Cause Unsigned32 2549 LRA-Flags Unsigned32 2550 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 ESMLC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 2554 1xRTT-RCID OctetString Note: The AVP codes from 2555 to 2599 are reserved for TS 29.172. Tenumerated 2600 reserved - 2601 IMS-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated				
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2543 Reporting-PLMN-List Grouped 2544 PLMN-ID-List Grouped 2545 PLR-Flags Unsigned32 2546 PLA-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Termination-Cause Unsigned32 2549 LRA-Flags Unsigned32 2550 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 ESMLC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 2554 1xRTT-RCID OctetString Note: The AVP codes from 2555 to 2599 are reserved for TS 29.172. Codo reserved - 2600 reserved - 2601 IMS-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated				
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2552 ESMLC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 2554 1xRTT-RCID OctetString Note: The AVP codes from 2555 to 2599 are reserved for TS 29.172. - 2600 reserved - 2601 IMS-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated				
2553 Cell-Portion-ID Unsigned32 2554 1xRTT-RCID OctetString Note: The AVP codes from 2555 to 2599 are reserved for TS 29.172. 2600 reserved - 2601 IMS-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated				
2554 1xRTT-RCID OctetString Note: The AVP codes from 2555 to 2599 are reserved for TS 29.172. 2600 reserved				
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2600 reserved-2601 IMS-Application-Reference-IdentifierUTF8String2602 Low-Priority-IndicatorEnumerated			OctetString	
2601 IMS-Application-Reference-IdentifierUTF8String2602 Low-Priority-IndicatorEnumerated				
2602 Low-Priority-Indicator Enumerated 32.299 [5]			-	
2602 Low-Priority-indicator Enumerated				32 200 [5]
2603 IP-Realm-Default-Indicator Enumerated				02.233 [0]
	2603	IP-Realm-Default-Indicator	Enumerated	

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.	Offsigned32	
2700 Not allocated		
2700 Not anocated 2701 Transit-IOI-List	UTF8String	-
2701 Transit-Ioi-List 2702 Status-AS-Code	Enumerated	+
2703 NNI-Information	Grouped	
2704 NNI-Type	Enumerated	
	Address	
2705 Neighbour-Node-Address 2706 Relationship-Mode		_
	Enumerated	4
2707 Session-Direction	Enumerated	4
2708 From-Address	UTF8String	32.299 [5]
2709 Access-Transfer-Information	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	4
2714 TWAN-User-Location-Info	Grouped	4
2715 Reserved	LITEOO!:	4
2716 BSSID	UTF8String	4
2717 TAD-Identifier		<u> </u>
Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299.		1
2800 Reserved	- Time a	4
2801 ADC-Revalidation-Time	Time	4
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	_
2808 CS-Service-QoS-Request-Operation	Enumerated	
2809 Mute-Notification	Enumerated	
2810 Monitoring-Time	Time	
2811 AN-GW-Status	Enumerated	
2812 User-Location-Info-Time	Grouped	
2813 CS-Service-Resource-Report	Time	29.212 [19]
2814 CS-Service-Resource-Failure-Cause	Enumerated	
2815 CS-Service-Resource-Result-Operation	Enumerated	
2816 Default-QoS-Information	Grouped	
2817 Default-QoS-Name	UTF8String	
2818 Conditional-APN-Aggregate-Max-Bitrate	Grouped	
2819 RAN-NAS-Release-Cause	OctetString	
2820 Presence-Reporting-Area-Elements-List	OctetString	1
2821 Presence-Reporting-Area-Identifier	OctetString	1
2822 Presence-Reporting-Area-Information	Grouped	<u> </u>
2823 Presence-Reporting-Area-Status	Unsigned32	<u> </u>
2824 NetLoc-Access-Support	Unsigned32	1
2825 Fixed-User-Location-Info	Grouped	1
2826 PCSCF-Restoration-Indication	Unsigned32	
Note: The AVP codes from 2827 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	1
2904 SL-Request-Type	Enumerated	
Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219.		
3000 reserved	-	
3001 Device-Action	Grouped]
3002 Device-Notification	Grouped]
3003 Trigger-Data	Grouped	20 260 [27]
3004 Payload	OctetString	29.368 [27]
3005 Action-Type	Enumerated	1
3006 Priority-Indication	Enumerated	1
3007 Reference-Number	Unsigned32	1
		1

3008 Request-Status	Enumerated	
3009 Delivery-Outcome	Enumerated	
3010 Application-Port-Identifier	Unsigned32	
3011 Old-Reference-Number	Unsigned32	
3012 Feature-Supported-In-Final-Target	Unsigned32	
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.	Chaighteac ₂	
3100 IP-SM-GW-Number	OctetString	
3101 IP-SM-GW-Name	Diameter Identity	
3102 User-Identifier	Grouped	
3103 Service-ID	Enumerated	
3104 SCS-Identity	OctetString	
3105 Service-Parameters	Grouped	1001 000 00
3106 T4-Parameters	Grouped	29.336 [28]
3107 Service-Data	Grouped	
3108 T4-Data	Grouped	
3109 HSS-Cause	Unsigned32	
3110 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	
3201 Absent-Subscriber-Diagnostic-T4	Enumerated	29.337 [29]
3202 Trigger-Action	Unsigned32	_0.00, [_0]
3203 MTC-Error-Diagnostic	Unsigned32	
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.		
3300 SC-Address	OctetString	
3301 SM-RP-UI	OctetString	
3302 TFR-Flags	Unsigned32	
3303 SM-Delivery- Failure-Cause	Grouped	
3304 SM-Enumerated-Delivery-Failure-Cause	Enumerated OctetString	
3305 SM-Diagnostic-Info	Unsigned32	
3306 SM-Delivery-Timer 3307 SM-Delivery-Start-Time	Time	
3308 SM-RP-MTI	Enumerated	
3309 SM-RP-SMEA	OctetString	
3310 SRR-Flags	Unsigned32	
3311 SM-Delivery-Not-Intended	Enumerated	
3312 MWD-Status	Unsigned32	
3313 MME-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3314 MSC-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	29.338 [30]
3315 SGSN-Absent-User-Subscriber-Diagnostic SM	Unsigned32	
3316 SM-Delivery-Outcome	Grouped	
3317 MME-SM-Delivery-Outcome	Grouped	
3318 MSC-SM-Delivery-Outcome	Grouped	
3319 SGSN-SM-Delivery-Outcome	Grouped	
3320 IP-SM-GW-SM-Delivery-Outcome	Grouped	
3321 SM-Delivery-Cause	Enumerated	
3322 Absent-User-Diagnostic-SM	Unsigned32	
3323 RDR-Flags	Unsigned32	
3324 SMSMI-Correlation-ID	Unsigned32	
3325 HSS-ID	UTF8String	
3326 Originating-SIP-URI	UTF8String	
3327 Destination-SIP-URI	UTF8String	
3328 OFR-Flags	Unsigned32	
Note: The AVP codes from 3329 to 3399 are reserved for TS 29.338.		
3400 reserved	I ITEQQ+ring	
3401 Reason-Header 3402 Instance-Id	UTF8String UTF8String	
3402 Instance-id 3403 Route-Header-Received	UTF8String UTF8String	
3404 Route-Header-Transmitted	UTF8String	
3405 SM-Device-Trigger-Information	Grouped	32.299 [5]
3406 MTC-IWF-Address	Address	02.200 [J]
3407 SM-Device-Trigger-Indicator	Enumerated	
3408 SM-Sequence-Number	Unsigned32	
3409 SMS-Result	Unsigned32	
3410 VCS-Information	Grouped	

		1-	
	Basic-Service-Code	Grouped	
	Bearer-Capability	OctetString	
	Teleservice	OctetString	
	ISUP-Location-Number	OctetString	
	Forwarding-Pending	Enumerated	
	ISUP-Release-Cause	Unsigned32	
	MSC-Address	OctetString	
	Network-Call-Reference-Number	OctetString	
	Start-of-Charging	Time	
	VLR-Number	OctetString	
	CN-Operator-Selection-Entity	Enumerated	
	ISUP-Cause-Diagnostics	OctetString	
	ISUP-Cause-Location	Unsigned32	
	ISUP-Cause-Value	Unsigned32	
	EPDG-Address	Address	
	The AVP codes from 3426 to 3499 are reserved for TS 32.299.	A -1 -1	
	BMSC-Address	Address	
	BMSC-Port	Unsigned32	
	MBMS-Bearer-Event	Unsigned32	
	MBMS-Bearer-Event-Notification	Grouped	
	MBMS-Bearer-Request	Grouped Grouped	
	MBMS-Bearer-Response		
	MBMS-Bearer-Result MBMS-Start-Time	Unsigned32	
	Radio-Frequency	Time Unsigned32	
	TMGI-Allocation-Request	Grouped	29.468 [31]
	TMGI-Allocation-Request TMGI-Allocation-Response	Grouped	
	TMGI-Allocation-Result	Unsigned32	
	TMGI-Anocation-Reguest	Grouped	
	TMGI-Deallocation-Response	Grouped	
	TMGI-Deallocation-Result	Unsigned32	
	TMGI-Expiry	Grouped	
	TMGI-LAPITY TMGI-Number	Unsigned32	
	MB2U-Security	Unsigned32	
	The AVP codes from 3518 to 3599 are reserved for TS 29.468.	energinede <u>e</u>	
	Origin-App-Layer-User-Id	UTF8String	
	Target-App-Layer-User-Id	UTF8String	
	ProSe-Function-ID	OctetString	29.343 [32]
	ProSe-Request-Type	Unsigned32	
	The AVP codes from 3605 to 3699 are reserved for TS 29.343.		
	ProSe-Subscription-Data	Grouped	
	ProSe-Permission	Unsigned32	
3703	ProSe-Allowed-PLMN	Grouped	
3704	ProSe-Direct-Allowed	Unsigned32	00 044 [00]
3705	UPR-Flags	Unsigned32	29.344 [33]
3706	PNR-Flags	Unsigned32	
	ProSe-Initial-Location-Information	Grouped	
	Authorized-Discovery-Range	Unsigned32	
	The AVP codes from 3709 to 3799 are reserved for TS 29.344.		
	Reserved		
	App-Layer-User-Id	UTF8String	
	Assistance-info	Grouped	
	Assistance-Info-Validity-Timer	Unsigned32	
	Discovery-Type	Unsigned32	
13805	II iltor Id	OctetString	
	Filter-Id		
3806	MAC-Address	UTF8String	
3806 3807	MAC-Address Match-Report	UTF8String Grouped	29,345 [34]
3806 3807 3808	MAC-Address Match-Report Operating-Channel	UTF8String Grouped Unsigned32	29.345 [34]
3806 3807 3808 3809	MAC-Address Match-Report Operating-Channel P2P-Features	UTF8String Grouped Unsigned32 Unsigned32	29.345 [34]
3806 3807 3808 3809 3810	MAC-Address Match-Report Operating-Channel P2P-Features ProSe-App-Code	UTF8String Grouped Unsigned32 Unsigned32 UTF8String	29.345 [34]
3806 3807 3808 3809 3810 3811	MAC-Address Match-Report Operating-Channel P2P-Features ProSe-App-Code ProSe-App-Id	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String	29.345 [34]
3806 3807 3808 3809 3810 3811 3812	MAC-Address Match-Report Operating-Channel P2P-Features ProSe-App-Code ProSe-App-Id ProSe-App-Mask	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String UTF8String	29.345 [34]
3806 3807 3808 3809 3810 3811 3812 3813	MAC-Address Match-Report Operating-Channel P2P-Features ProSe-App-Code ProSe-App-Id ProSe-App-Mask ProSe-Discovery-Filter	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Grouped	29.345 [34]
3806 3807 3808 3809 3810 3811 3812 3813 3814	MAC-Address Match-Report Operating-Channel P2P-Features ProSe-App-Code ProSe-App-Id ProSe-App-Mask	UTF8String Grouped Unsigned32 Unsigned32 UTF8String UTF8String UTF8String	29.345 [34]

3816 Requesting-EPUID	UTF8String	
3817 Targeted-EPUID	UTF8String	
3818 Time-Window	Unsigned32	
3819 WiFi-P2P-Assistance-Info	Grouped	
3820 WLAN-Assistance-Info	Grouped	
3821 WLAN-Link-Layer-Id	OctetString	
3822 WLAN-Link-Layer-Id-List	Grouped	
3823 Location-Update-Trigger	Grouped	
3824 Location-Update-Event-Type	Unsigned32	
3825 Change-Of-Area-Type	Grouped	
3826 Location-Update-Event-Trigger	Unsigned32	
3827 Report-Cardinality	Enumerated	
3828 Minimum-Interval-Time	Unsigned32	
3829 Periodic-Location-Type	Grouped	
3830 Location-Report-Interval-Time	Unsigned32	
3831 Total-Number-Of-Reports	Unsigned32	
3832 Validity-Time-Announce	Unsigned32	
3833 Validity-Time-Monitor	Unsigned32	
3834 Validity-Time-Communication	Unsigned32	
3835 ProSe-App-Code-Info	Grouped	
3836 MIC	OctetString	
3837 UTC-based-Counter	Unsigned32	
Note: The AVP codes from 3838 to 3899 are	e reserved for TS 29.345.	

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 Experim	Note: The Experimental Result Codes from 2022 to 2040 are reserved for the TS 29.061							
	29.109 [7]							
Note: The Experim	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.							

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS						
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]						
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS							
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.							
4121	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]						
Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061.							
4141	DIAMETER_PCC_BEARER_EVENT							
4142	DIAMETER_BEARER_EVENT	29.212 [19]						
4143	DIAMETER_AN_GW_FAILED	29.212 [19]						
4144	DIAMETER_PENDING_TRANSACTION							
Note: The Experime	ntal Result Codes from 4145 to 4160 are reserved for the TS 29.212							
		32.299 [5]						
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.							
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	20 272 [24]						
4182								
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.							
4201	4201 DIAMETER_ERROR_ABSENT_USER 29.173 [25]							
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.							
4221	DIAMETER_ERROR_UNREACHABLE_USER							
4222	DIAMETER_ERROR_SUSPENDED_USER							
4223	DIAMETER_ERROR_DETACHED_USER	29.172 [24]						
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]						
4225	DIAMETER_ERROR_POSITIONING_FAILED							
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT							
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.							
4241								
Note: The Experime	ntal Result Codes from 4242 to 4260 are reserved for the TS 29.219.							
		29.214 [18]						
Note: The Experime	ntal Result Codes from 4261 to 4280 are reserved for the TS 29.214.	·						

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER ERROR IDENTITIES DONT MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5008	DIAMETER_ERROR_TOO_MUCH_DATA	_00 [_]
5009	DIAMETER ERROR NOT SUPPORTED USER DATA	
5010	unassigned	
5011	DIAMETER ERROR FEATURE UNSUPPORTED	
5012	DIAMETER ERROR SERVING NODE FEATURE UNSUPP	
3012	ORTED	
Note: The Expe	erimental Result Codes from 5013 to 5020 are reserved for the TS	S 29.229. 32.299 [5]
Note: The Expe	rimental Result Codes from 5021 to 5040 are reserved for the TS	
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	DIAMETER ERROR W-APN UNUSED BY USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC	
0040	RIPTION	29.234 [6]
5044	DIAMETER ERROR USER NO W-APN SUBSCRIPTION	
5045	DIAMETER ERROR UNSUITABLE NETWORK	
	rimental Result Codes from 5046 to 5060 are reserved for the TS	S 20 23/I
5061	INVALID_SERVICE_INFORMATION	3 23.234.
5062	FILTER_RESTRICTIONS	
	REQUESTED SERVICE NOT_AUTHORIZED	
5063		29.209 [8],
5064	DUPLICATED_AF_SESSION	29.211 [17],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.214 [18]
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
5068	TEMPORARY_NETWORK_FAILURE	
and and	erimental Result Codes from 5069 to 5080 are reserved for TS 29 TS 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	20 220 [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 DSAL NOT AVAILABLE	
	erimental Result Codes from 5109 to 5119 are reserved for the TS	S 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
	primental Result Codes from 5124 to 5139 are reserved for the TS	S 29.061.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	
5142	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	29.212 [19]
5145	DIAMETER QOS RULE EVENT	
5146	reserved	
	DIAMETER_ERROR_CONFLICTING_REQUEST	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST DIAMETER_ADC_RULE_EVENT	
5148		2 20 242
	rimental Result Codes from 5149 to 5159 are reserved for the TS	
5401	UIAWETEK_EKKUK_IWPI_UNKNUWN	29.109 [7

5402	DIAMETER_ERROR_NOT_AUTHORIZED	
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	
Note: The Expe	rimental Result Codes from 5404 to 5419 are reserved for the TS	S 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	
Note: The Expe	rimental Result Codes from 5424 to 5449 are reserved for the TS	3 29.272.
5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI	
0.00	ON	
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	29.273 [20]
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	
	primental Result Codes from 5453 to 5469 are reserved for the TS	3 20 273
5470	DIAMETER_ERROR_SUBSESSION	23.273.
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME	29.215 [22]
3471	INT	29.213 [22]
Note: The Fune	1 - 1	2 00 045
	rimental Result Codes from 5472 to 5489 are reserved for the TS	5 29.215.
5490		29.173 [25]
	WORK	
	rimental Result Codes from 5491 to 5509 are reserved for the TS	5 29.1/3.
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI	
	TY	29.336 [28]
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
Note: The Expe	rimental Result Codes from 5512 to 5529 are reserved for the TS	S 29.336.
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	
5531	DIAMETER_ERROR_SC_CONGESTION	
5532	DIAMETER_ERROR_SM_PROTOCOL	20 227 [20]
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	29.337 [29]
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5535	DIAMETER ERROR ORIGINAL MESSAGE NOT PENDING	
	rimental Result Codes from 5536 to 5549 are reserved for the TS	3 29 337
5550	DIAMETER_ERROR_ABSENT_USER	20.007.
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5553	DIAMETER_ERROR_ILLEGAL_USER	
	DIAMETER_ERROR_ILLEGAL_USER DIAMETER ERROR_ILLEGAL_EQUIPMENT	1001 000 00
5554		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 Expe	rimental Result Codes from 5559 to 5569 are reserved for the TS	
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
Note: The	Experimental Result Codes from 5571 to 5589 are reserved for t	he TS 29.219.
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	
5592	DIAMETER_ERROR_PFID_UNKNOWN	
5593	DIAMETER_ERROR_APP_REGISTER_REJECT	29.343 [32]
5594	DIAMETER ERROR PROSE MAP REQUEST DISALLOWE	r- 1
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	
	rimental Result Codes from 5596 to 5609 are reserved for the TS	S 29.343.
5610		· · · · · · · · · · · · · · · · · · ·
0010	DIAMETER ERROR LINKNOWN PROSE SUBSCRIPTION	
5611	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION DIAMETER_ERROR_PROSE_NOT_ALLOWED	20 344 [33]
5611 5612	DIAMETER_ERROR_ PROSE_NOT_ALLOWED	29.344 [33]
5612	DIAMETER_ERROR_ PROSE_NOT_ALLOWED DIAMETER_ERROR_ UE_LOCATION_UNKNOWN	
5612 Note: The Expe	DIAMETER_ERROR_ PROSE_NOT_ALLOWED DIAMETER_ERROR_ UE_LOCATION_UNKNOWN rimental Result Codes from 5613 to 5629 are reserved for the TS	
5612	DIAMETER_ERROR_ PROSE_NOT_ALLOWED DIAMETER_ERROR_ UE_LOCATION_UNKNOWN rimental Result Codes from 5613 to 5629 are reserved for the TS DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT	
5612 Note: The Expe 5630	DIAMETER_ERROR_ PROSE_NOT_ALLOWED DIAMETER_ERROR_ UE_LOCATION_UNKNOWN rimental Result Codes from 5613 to 5629 are reserved for the TS DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER	
5612 Note: The Expe	DIAMETER_ERROR_ PROSE_NOT_ALLOWED DIAMETER_ERROR_ UE_LOCATION_UNKNOWN rimental Result Codes from 5613 to 5629 are reserved for the TS DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P	
5612 Note: The Expe 5630 5631	DIAMETER_ERROR_ PROSE_NOT_ALLOWED DIAMETER_ERROR_ UE_LOCATION_UNKNOWN rimental Result Codes from 5613 to 5629 are reserved for the TS DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN	
5612 Note: The Expe 5630 5631 5632	DIAMETER_ERROR_ PROSE_NOT_ALLOWED DIAMETER_ERROR_ UE_LOCATION_UNKNOWN rimental Result Codes from 5613 to 5629 are reserved for the TS DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN DIAMETER_ERROR_INVALID_APPLICATION_CODE	3 29.344.
5612 Note: The Expe 5630 5631 5632 5633	DIAMETER_ERROR_ PROSE_NOT_ALLOWED DIAMETER_ERROR_ UE_LOCATION_UNKNOWN rimental Result Codes from 5613 to 5629 are reserved for the TS DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN DIAMETER_ERROR_INVALID_APPLICATION_CODE DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	
5612 Note: The Expe 5630 5631 5632 5633 5634	DIAMETER_ERROR_ PROSE_NOT_ALLOWED DIAMETER_ERROR_ UE_LOCATION_UNKNOWN Inimental Result Codes from 5613 to 5629 are reserved for the TS DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN DIAMETER_ERROR_INVALID_APPLICATION_CODE DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED DIAMETER_ERROR_PROXIMITY_REJECTED	3 29.344.
5612 Note: The Expe 5630 5631 5632 5633	DIAMETER_ERROR_ PROSE_NOT_ALLOWED DIAMETER_ERROR_ UE_LOCATION_UNKNOWN Inimental Result Codes from 5613 to 5629 are reserved for the TS DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN DIAMETER_ERROR_INVALID_APPLICATION_CODE DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED DIAMETER_ERROR_PROXIMITY_REJECTED DIAMETER_ERROR_NO_PROXIMITY_REQUEST	3 29.344.
5612 Note: The Expe 5630 5631 5632 5633 5634	DIAMETER_ERROR_ PROSE_NOT_ALLOWED DIAMETER_ERROR_ UE_LOCATION_UNKNOWN Inimental Result Codes from 5613 to 5629 are reserved for the TS DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN DIAMETER_ERROR_INVALID_APPLICATION_CODE DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED DIAMETER_ERROR_PROXIMITY_REJECTED DIAMETER_ERROR_NO_PROXIMITY_REQUEST DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_	3 29.344.
5612 Note: The Expert 5630 5631 5632 5633 5634 5635	DIAMETER_ERROR_ PROSE_NOT_ALLOWED DIAMETER_ERROR_ UE_LOCATION_UNKNOWN Inimental Result Codes from 5613 to 5629 are reserved for the TS DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT ER DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P LMN DIAMETER_ERROR_INVALID_APPLICATION_CODE DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED DIAMETER_ERROR_PROXIMITY_REJECTED DIAMETER_ERROR_NO_PROXIMITY_REQUEST	3 29.344.

Note: The Experimental Result Codes from 5638 to 5649 are reserved for the TS 29.345.

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

					Change history		
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292			Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25	NP-040401			Correction of Charging application reference	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Removal of User Data Request Type AVP	6.0.0	6.1.0
2004-09	CN#25	NP-040412		1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26	NP-040579			Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12	CN#26	NP-040580		1	Reservation of command code 310	6.1.0	6.2.0
2004-12	CN#26	NP-040579		1	Addition of Gmb interface	6.1.0	6.2.0
2004-12	CN#26	NP-040600		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			Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047		1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
	ļ	NP-050039			Allocations for Gx interface]	
		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
	Į	CP-050310			Addition of Pr reference point to TS 29.230]	
		CP-050310	0054		Error code cleanup]	
		CP-050310	0056		Addition of Rx ref. point and renaming of Experimental Result 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		
	ŀ	CP-050625			Management of Sh subscriptions	i	
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
2000 00	01//01	CP-060084			User-Data in the response to Sh-Subs-Notif	7	7.2.0
	ŀ	CP-060084		1	New error indications for the Sh-Subs-Notif procedure	ł	
2006-06	CT#32	CP-060302		'	S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417		3	New AVP Code	7.3.0	7.4.0
2000 00	01//00	CP-060417			Errors to be sent in response to Sh-Notif	7.0.0	7.4.0
	ŀ	CP-060417			Definition of specific Diameter codes for DSAI	ł	
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
2000 12	01/101	CP-060562		i e	Addition of Diameter Error Code for Emergency Purposes		7.0.0
		CP-060555			Allocation of new AVP codes for Gmb	i	
	ŀ	CP-060555			AVP code allocations for Rf and Ro interfaces	i	
	ŀ	CP-060566			Allocation of Success Result Code Range for Gi Interface	i	
2007-03	CT#35	CP-070020			C3 requested addition of new AVP code values to 3GPP TS 29.230	750	7.6.0
2007 00	01//00	CP-070020			Allocation of new AVP code for DSAI-Tag AVP	1.0.0	7.0.0
	ŀ	CP-070020			Allocation of Experimental-Result-Code AVP for Gi Interface	i	
2007-06	CT#36	CP-070318			Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312			Experimental-Result-Codes for Gmb interface	1	
		CP-070312			Correction of Diameter AVP code allocation	i	
2007-09	CT#37	CP-070527			Application ID for Gx protocol	7.7.0	7.8.0
2007-03	CT#38	CP-070743			AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
	3.700	3. 3/3/43	0105		Allocation of 3GPP specific AVP codes and Experimental Result	1 .5.5	1.5.5
					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
2009 02	CT#39	CD 000045			AVP code reservation for 32.299 in Rel-8	9 0 0	010
2008-03	C1#39	CP-080015		-	Correction of reference to TS 29.140	8.0.0	8.1.0
	1	CP-080019		1	AVP code reservation for TS 32.299 in Rel-8	1	
		CP-080019 CP-080191		1	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in	1	
					Rel-7		
	0=":-	CP-080204			Correction on AVP code allocation reservation for TS 32.299		0.5.
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			Emergency Public User Identity Removal	8.2.0	8.3.0
2008-09	CT#41	CP-080460			Support of "Loose-Route" indication from HSS		
2008-09	CT#41	CP-080460		1	STaMIP Application Id		
2008-09	CT#41	CP-080463			Cx Impacts of IMS Restoration Procedures (New AVP Codes]	

2008-09	CT#41	CP-080463			Assignment) New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42	CP-080691			Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691	0128	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	0132		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		2	Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	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		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			Update of the AVP Codes	8.5.0	8.6.0
-000 00	0	CP-090299			AVP code reservation for TS 32.299	10.0.0	0.0.
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"	1	
		01 030233	0146		Removal of Requesting Node Type from AIR	1	
		CP-090299			S6b Application ID	1	
2000 00	CT#4E	CP-090299				0.6.0	0.7/
2009-09	CT#45			 	Allocation of Experimental-Result-Codes for S9 protocol AVP code allocation for TS 29.212	8.6.0	8.7.0
		CP-090530		1		┨	1
		CP-090531		 	Update of the AVP type for the User-Id	-	1
2002.55	OT# 4=	CP-090531		ļ	Trace Depth per session	07.	0.7
2009-09	CT#45	CP-090557		ļ .	AVP code range for charging	8.7.0	9.0.
2009-12	CT#46	CP-090800	-	1	ICS-Flag	9.0.0	9.1.
		CP-091032			From GMLC-Address to GMLC-Number	4	
			0160		Session-Priority AVP		
			0163	2	Introduction of SLh application related AVPs and Experimental		
					Result codes		
			0166		Missing AVP error codes		
		CP-090797	0167	1	Introduction of SLg application related AVPs and Application		
	0=	05 (0000)			Identifier		
2010-03	CT#47	CP-100031			Wildcarded Public Identity	9.1.0	9.2.
		CP-100034	0168	1	Correction on AVP code allocation reservation for TS 32.299 in		
		05 100010			Rel-9		
		CP-100046		1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109		ļ
		CP-100046			Error codes in 29.172 for SLg		ļ
		CP-100048		1	AVPs in 29.272 for TADS support		
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		CP-100236		4	EPS Subcsriber State and Location Information Request		
		CP-100033			One time notification AVP allocation		ļ
		CP-100046			Addition of the LCS-QoS-Class attribute value		ļ
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			0183		EPS state and location retrieval		
		CP-100287			SGmb Application ID		
	1	CP-100277			New APVs in S6a protocol		<u> </u>
2010-09	CT#49	CP-100463	0197	1	Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.
					interfaces		
		CP-100464			AVP Codes Allocation for PCC		
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		CP-100466			Location data including only serving node address		
		CP-100466		1	AVP for Update-Eff feature		
2010-12	CT#50	CP-100699			Enhanced SRVCC Subscriber Data	10.0.0	10.1
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	1	CP-100683			Allocate codes for AVPs on LIPA	1]
		CP-100688			Periodic TAU/RAU timer in HSS subscription		1
		CP-100846		1	S6a Error Diagnostic		<u></u>
2011-03	CT#51	CP-110051			PDP-Address correction	10.1.0	10.2
		CP-110054			Essential correction on the value type of the ELP Application AVPs		
		CP-110087			Minimization of Drive Tests (MDT)	1	1
		CP-110088			Relay Node Indicator AVPs		<u></u>
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		CP-110359			MIPv4 security parameters on the STa and S6b interfaces		
		CP-110380	0216		MDT user consent		1
		CP-110370			AVP Code Allocation for Pre-paging		
	<u>l</u>	CP-110375	0227	1	PUR-Flags AVP	<u> </u>	L
2011-09	CT#53	CP-110559	0236	1	AVP code alignment with 29.212	10.3.0	10.4
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2011-09	C1#33	CP-110564		1	AVP code alignment with 32.299	10.4.0	11.0.
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		00 400000	0004		SGmb	4	-
2040.00	OT#50	CP-120038			Allocating Diameter AVP codes for TS 29.219 and TS 29.212	44.0.0	44.0
2012-06	CT#56	CP-120240			Codes Allocation for AVPs on NPLI	11.2.0	11.3.
		CP-120238	0294	1	Adding new Diameter AVPs to Diameter table to support Trusted WLAN Access feature		
		CP-120225	0206	1	Trust Relationship Indication	+	}
		CP-120225			Corrections to reference titles	+	
		CP-120251			Diameter Code Allocation for TS 29.219	-	1
		CP-120247			Network Name AVP codes	1	
	1	CP-120247			Duplicated AVP names	1	1
2012-09	CT#57	CP-120481			PS additional number allocation	11.3.0	11 4
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		CP-120461			AAA Failure Recovery AVP codes		İ
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		CP-120716	0324	1	AVP name modification in TS 32.299		
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		CP-130380			New SGs-MME-Identity AVP		
		CP-130291	0348	2	New AVPs for deferred MT-LR and periodic MO-LR TTTP		
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.013-09	C1#61	CP-130454			AVP code reservation for TS 32.299 Rel-12	12.1.0	12.2
	}	CP-130461			Allocation of Diameter codes and identifiers for 29.212 and 29.215	+	
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-010-08					Request/Answer corrected	12.2.0	12.2
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	ľ		10010	'		_]	
				l_	Allocation of Diameter codes for 20 212		
		CP-130605	0378		Allocation of Diameter codes for 29.212		1
2014-03	CT#63		0378 0380	-	Allocation of Diameter codes for 29.212 SGSN CAMEL Subscription Indication Protocol enhancements for the support of device replace procedure	1220	12.4

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ł	ł	CP-140236		-	New AVPs for Trusted WLAN access	┨	
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	ŀ	CP-140505			P-CSCF Restoration indication	4	
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			0410		WLCP key for WLCP signalling protection	_	
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	Ĭ		0434	1	Command Code and Error Code for ProSe Initial Location		
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			0438	1	Allocation of code for Authorized-Discovery-Range AVP (TS 29.344)		
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			0441		AVP codes allocation for Validity related AVPs for TS 29.345	1	Ì
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History

	Document history							
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