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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.

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Diameter protocol; Stage 3".

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	•
[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 29.173: "Dolicy 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 29.343: "Diameter based protocols to support SMS capable MMEs". [31] 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". 		
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aspects".	[32]	
[34] 3GPP TS 29.345: "Inter-Proximity-services (Prose) function signalling aspects; Stage 3".	[33]	
	[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	29.172 [24]
8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]
8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]
8388635	Spending-Limit-Request/Answer	SLR/SLA	
8388636	Spending-Status-Notification-	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	29.272 [21]
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]
8388639	Device-Action-Request/Answer	DAR/DAA	20 260 [27]
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	29.337 [29]
8388644	Delivery-Report-Request/Answer	DRR/DRA	29.337 [29]
8388645	MO-Forward-Short-Message Request/Answer	OFR/OFA	
8388646	MT-Forward-Short-Message Request/Answer	TFR/TFA	
8388647	Send-Routing-Info-for-SM- Request/Answer	SRR/SRA	29.338 [30]
8388648	Alert-Service-Centre-Request/Answer	ALR/ALA	
8388649	Report-SM-Delivery-Status- Request/Answer	RDR/RDA	
8388656	Trigger-Establishment-Request/Answer	TER/TEA	29.215 [30]
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	5.5.5 [5.1]
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.

	,		
508	Flow-Grouping	Grouped	
509	Flow-Number	Unsigned32	
510	Flows	Grouped	
511	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	
520	Media-Type	Enumerated	
	RR-Bandwidth	Unsigned32	
522	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	
530	Sponsored-Connectivity-Data	Grouped	
	Sponsor-Identity	OctetString	
	Application-Service-Provider-Identity	OctetString	
	Rx-Request-Type	Enumerated	
	Min-Requested-Bandwidth-DL	Unsigned32	
	Min-Requested-Bandwidth-UL		
		Unsigned32	
	Required-Access-Info	Enumerated	
	IP-Domain-Id	OctetString	
	GCS-Identifier	OctetString	
Note:	The AVP codes from 539 to 599 are reserved for TS 29.209, TS 29.20	11 and TS 29.214	
600	Visited-Network-Identifier	OctetString	
601	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	
609	SIP-Authenticate	OctetString	
610	SIP-Authorization	OctetString	
611	SIP-Authentication-Context	OctetString	
	SIP-Auth-Data-Item	Grouped	
	SIP-Item-Number	Unsigned32	
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	20, 200 [0]
	Reason-Code	Enumerated	29.229 [2]
	Reason-Info	UTF8String	
	Charging-Information	Grouped	
	Primary-Event-Charging-Function-Name	DiameterURI	
	Secondary-Event-Charging-Function-Name	DiameterURI	
	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
	User-Authorization-Type	Enumerated	
	User-Data-Already-Available	Enumerated	
	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
628	Supported-Features	Grouped	
629	Feature-List-ID	Unsigned32	
	Feature-List-ID Feature-List	Unsigned32 Unsigned32	
630	Feature-List	Unsigned32	
630 631			

	Originating-Request	Enumerated	
634	Wildcarded-Public-Identity	UTF8String	
635	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
	SCSCF-Restoration-Info	Grouped	
	Path	OctetString	
641	Contact	OctetString	
642	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	
	Record-Route	OctetString	
	Associated-Registered-Identities	Grouped	
648	Multiple-Registration-Indication	Enumerated	
649	Restoration-Info	Grouped	
650	Session-Priority	Enumerated	
	Identity-with-Emergency-Registration	Grouped	
	Priviledged-Sender-Indication	Enumerated	
	LIA-Flags	Unsigned32	
	Initial-CSeq-Sequence-Number	Unsigned32	
	SAR-Flags	Unsigned32	
Note:	The AVP codes from 656 to 699 are reserved for TS 29.229.		
	User-Identity	Grouped	
	MSISDN	OctetString	
	User-Data	OctetString	
	Data-Reference	Enumerated	
	Service-Indication	OctetString	
705	Subs-Req-Type	Enumerated	
706	Requested-Domain	Enumerated	
707	Current-Location	Enumerated	
	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	29.329 [4]
712	One-Time-Notification	Enumerated	
713	Requested-Nodes	Unsigned32	
714	Serving-Node-Indication	Enumerated	
	Repository-Data-ID	Grouped	
	Sequence-Number	Unsigned32	
		·	
	Pre-paging-Supported	Enumerated	
	Local-Time-Zone-Indication	Enumerated	
	UDR-Flags	Unsigned32	
720	Call-Reference-Info	Grouped	
	Call-Reference-Number	OctetString	
	AS-Number	OctetString	
	The AVP codes from 723 to 799 are reserved for TS 29.329.	20.0.019	
	The AVP codes from 800 to 822 are reserved for TS 32.329.		
		0	
	Event-Type	Grouped	
	SIP-Method	UTF8String	
825	Event	UTF8String	
826	Content-Type	UTF8String	
	Content-Length	Unsigned32	
	Content-Disposition	UTF8String	
	Role-of-Node	Enumerated	
	User-Session-Id	UTF8String	32.299 [5]
	Calling-Party-Address	UTF8String	5 <u></u> -00 [0]
832	Called-Party-Address	UTF8String	
833	Time-Stamps	Grouped	
	SIP-Request-Timestamp	Time	
	SIP-Response-Timestamp	Time	
		UTF8String	
	Application-Server		
	Application-provided-called-party-address	UTF8String	
838	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	-	

	,	
1247 PDP-Context-Type	Enumerated	
1248 MMBox-Storage-Requested	Enumerated	
1249 Service-Specific-Info	Grouped	
1250 Called-Asserted-Identity	UTF8String	
1251 Requested-Party-Address	UTF8String	
1252 PoC-User-Role	Grouped	
1253 PoC-User-Role-IDs	UTF8String	
1254 PoC-User-Role-info-Units	Enumerated	
1255 Talk-Burst-Exchange	Grouped	
1256 Service-Generic-Information 1257 Service-Specific-Type	Grouped Unsigned32	
1257 Service-Specific-Type 1258 Event-Charging-TimeStamp	Time	
1259 Participant-Access-Priority	Enumerated	
1260 Participant-Group	Grouped	
1261 PoC-Change-Conditions	Enumerated	
1262 PoC-Change-Time	Time	
1263 Access-Network-Information	OctetString	
1264 Trigger	Grouped	
1265 Base-Time-Interval	Unsigned32	
1266 Envelope	Grouped	
1267 Envelope-End-Time	Time	
1268 Envelope-Reporting	Enumerated	
1269 Envelope-Start-Time	Time	
1270 Time-Quota-Mechanism	Grouped	
1271 Time-Quota-Type	Enumerated	
1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps	Grouped	
1274 SDP-Offer-Timestamp	Time	
1275 SDP-Answer-Timestamp	Time	
1276 AF-Correlation-Information	Grouped	
1277 PoC-Session-Initiation-type	Enumerated	
1278 Offline-Charging	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier 1282 Number-Of-Received-Talk-Bursts	UTF8String	
1282 Number-Of-Received-Taik-Bursts 1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32 Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299	5 .1 00 anig	
1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	
1403 Software-Version	UTF8String	
1404 QoS-Subscribed	UTF8String	
1405 ULR-Flags	Unsigned32	
1406 ULA-Flags	Unsigned32	
1407 Visited PLMN Id	OctetString	
1408 Requested-EUTRAN-Authentication-Info	Grouped	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped	
1410 Number-Of-Requested-Vectors	Unsigned32	29.272 [21]
1411 Re-Synchronization-Info	OctetString	
1412 Immediate-Response-Preferred	Unsigned32	
1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped Enumerated	
1417 Network-Access-Mode 1418 HPLMN-ODB	Enumerated Enumerated	
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	
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422 DSA-Flags Unsigned32 243 Context-Identifier Unsigned32 244 Subscriber-Status Enumerated 245 Operator-Determined-Barring Unsigned32 246 Access-Restriction-Data UTF8String 247 APN-Cheriguration-Profile UTF8String 248 Ali-APN-Configuration-Profile Grouped 249 APN-Configuration-Profile Grouped 241 EPS-Subscribed-QoS-Profile Grouped 242 IPLIMN-Dynamic-Address-Allowed Enumerated 433 STN-SR OctetString 243 Allort-Reason Enumerated 435 AMBR Grouped 437 CSG-Id Unsigned32 249 PDN-GW-Allocation-Type Enumerated 439 EX-piration-Date Time 440 RAT-Frequency-Selection-Priority-ID Unsigned32 441 IDA-Frags Unsigned32 442 PUA-Flags Unsigned32 443 SWER-Flag Unsigned32 444 User-Id Urseped32 445 Regional-Subscription-Zone-Code OctetString 446 Regional-Subscription-Zone-Code OctetString 447 RAND <td< th=""><th></th><th></th><th></th></td<>			
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131 EPS-Subscribed-QoS-Profile			
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Agent			Enumerated
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Grouped	1434	Alert-Reason	Enumerated
Grouped	1435	AMBR	Grouped
137 CSG-Id			
DN-GW-Allocation-Type			
Time			
440 RAT-Frequency-Selection-Priority-ID			
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442 PUA-Flags Unsigned32 443 NOR-Flags Unsigned32 444 User-Id UTF8String 445 Equipment-Status Enumerated 446 Regional-Subscription-Zone-Code OctetString 447 RAND OctetString 448 XRES OctetString 449 AUTN OctetString 450 KASME OctetString 451 Reserved - 452 Trace-Collection-Entity Address 453 KC OctetString 454 SRES OctetString 455 Reserved - 457 Roaming-Restricted-Due-To-Unsupported-Feature Enumerated 458 Trace-Data Grouped 459 Trace-Reference OctetString 460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Depth Enumerated 465 Trace-Event-List OctetString 466 OMC-Id OctetString 467 GPRS-Subscription-Data Grouped 468 Complete-Data-List-Inclu			
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472 Specific-APN-Info Grouped 473 LCS-Info Grouped 474 GMLC-Number OctetString 475 LCS-PrivacyException Grouped 476 SS-Code OctetString 477 SS-Status OctetString 478 Notification-To-UE-User Enumerated 479 External-Client Grouped 480 Client-Identity OctetString 481 GMLC-Restriction Enumerated 482 PLMN-Client Enumerated 483 Service-Type Grouped 484 ServiceTypeIdentity Unsigned32 485 MO-LR Grouped			
473 LCS-Info Grouped 474 GMLC-Number OctetString 475 LCS-PrivacyException Grouped 476 SS-Code OctetString 477 SS-Status OctetString 478 Notification-To-UE-User Enumerated 479 External-Client Grouped 480 Client-Identity OctetString 481 GMLC-Restriction Enumerated 482 PLMN-Client Enumerated 483 Service-Type Grouped 484 ServiceTypeIdentity Unsigned32 485 MO-LR Grouped			
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479 External-Client Grouped 480 Client-Identity OctetString 481 GMLC-Restriction Enumerated 482 PLMN-Client Enumerated 483 Service-Type Grouped 484 ServiceTypeIdentity Unsigned32 485 MO-LR Grouped			
480 Client-Identity OctetString 481 GMLC-Restriction Enumerated 482 PLMN-Client Enumerated 483 Service-Type Grouped 484 ServiceTypeIdentity Unsigned32 485 MO-LR Grouped			
481 GMLC-Restriction Enumerated 482 PLMN-Client Enumerated 483 Service-Type Grouped 484 ServiceTypeIdentity Unsigned32 485 MO-LR Grouped			
482 PLMN-Client Enumerated 483 Service-Type Grouped 484 ServiceTypeIdentity Unsigned32 485 MO-LR Grouped			
483Service-TypeGrouped484ServiceTypeIdentityUnsigned32485MO-LRGrouped			
484 ServiceTypeIdentity Unsigned32 485 MO-LR Grouped			
485 MO-LR Grouped			
486 Leieservice-List Grouped			
	1486	I eleservice-List	Grouped

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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	
1100 0001 01010	Enamoratoa	
1500 Non-3GPP-User-Data	Grouped	
1501 Non-3GPP-IP-Access	Enumerated	
1502 Non-3GPP-IP-Access-APN	Enumerated	
1503 AN-Trusted	Enumerated	
1504 ANID	UTF8String	
1505 Trace-Info	Grouped	
1506 MIP-FA-RK	OctetString	
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	
1518 AAA-Failure-Indication	Unsigned32	20 272 [20]
	Enumerated	29.273 [20]
1519 Transport-Access-Type		
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	OctetString	
318 3GPP-AAA-Server-Name	DiameterIdentity	
Note 1: The AVP codes from 1536 to 1599 are reserved for TS 29.273	Diameteriaentity	
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP	TS 29 234 and is now defi	ned in 3GPP TS
29.273 from Rel-12.	10 20.207 and is now den	
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	00.070.17
1605 Routing-Area-Identity	OctetString	29.272 [21]
1606 Location-Area-Identity	OctetString	
1606 Location-Area-Identity 1607 Service-Area-Identity	OctetString OctetString	
1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information	OctetString OctetString OctetString	
1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information	OctetString OctetString OctetString OctetString	
1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information	OctetString OctetString OctetString	

4044 14 001 6 1 0	11 1 100	
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	Enumerated
2026 Recipient-Info	Grouped
2027 Originator-Received-Address	Grouped
2028 Recipient-Received-Address	Grouped
2029 SM-Service-Type	Enumerated
2030 MMTel-Information	Grouped
2031 MMTel-Sservice-Type	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
	-

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2068 Dynamic-Address-Flag-Extension	Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.		
2100 reserved	-	
2101 Application-Server-ID	UTF8String	
2102 Application-Service-Type	Enumerated	
2103 Application-Session-ID	Unsigned32	
2104 Delivery-Status	UTF8String	
2105 reserved	-	
2106 reserved	-	
2107 reserved	-	
2108 reserved	-	
2109 reserved	-	32.299 [5]
2110 IM-Information	Grouped	02.200 [0]
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112 Number-Of-Messages-Successfully-Sent	Unsigned32	
2113 Total-Number-Of-Messages-Exploded	Unsigned32	
2114 Total-Number-Of-Messages-Sent	Unsigned32	
2115 DCD-Information	Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String	
2118 Charge-Reason-Code	Enumerated	
Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299.		
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
2202 Subsession-Id	Unsigned32	
2203 Subsession-Operation	Enumerated	
2204 Multiple-BBERF-Action	Enumerated	29.215 [22]
2205 UE-Local-IPv6-Prefix	OctetString	
2206 DRA-Deployment	Enumerated	
2207 PCRF-Address	DiameterIdentity	
2208 DRA-Binding	Enumerated	
Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215.	Lituillelated	
2300 reserved	1	
	- Lineiane d22	
2301 SIP-Request-Timestamp-Fraction	Unsigned32	
2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2303 Online-Charging-Flag	Enumerated	
2304 CUG-Information	OctetString	
2305 Real-Time-Tariff-Information	Grouped	
2306 Tariff-XML	UTF8String	
2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
2309 Account-Expiration	Time	
2310 AoC-Format	Enumerated	
2311 AoC-Service	Enumerated	00 000 [5]
2312 AoC-Service-Obligatory-Type	Grouped	32.299 [5]
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	-	
2317 CSG-Access-Mode	Enumerated	
	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator	Enumerated	
2323 MBMS-Charged-Party	Enumerated	
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.		
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
	OctetString	00 470 [07]
2403 MSC-Number	Octototiliq	
		29.173 [25]
2404 LCS-Capabilities-Sets	Unsigned32	29.173 [25]
2404 LCS-Capabilities-Sets 2405 GMLC-Address	Unsigned32 Address	29.173 [25]
2404 LCS-Capabilities-Sets	Unsigned32	29.173 [25]

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 2520 UTRAN-Session OctelString 2521 UTRAN-Positioning-Data OctelString 2522 UTRAN-Positioning-Data OctelString 2523 LOS-Gos-Class OctelString 2524 GERAN-GANSS-Positioning-Data OctelString 2525 UTRAN-Positioning-Data OctelString 2526 GERAN-GANSS-Positioning-Data OctelString 2529 UTRAN-GANSS-Positioning-Data OctelString 2520 UTRAN-Positioning-Data OctelString 2521 LOS-Gos-Class OctelString 2522 UTRAN-Positioning-Data OctelString 2523 ARR-Flags Unsigned32 2531 LOS-Reference-Number OctelString 2532 OctelString OctelString 2533 Area-Event-Info Grouped 2534 Area-Positioning-Data OctelString 2535 Area-Identification Grouped 2536 Area-Information Grouped 2537 Area-Identification Grouped 2538 Occurrence-Info Enumerated 2539 Area-Identification Grouped 2530 Area-Identification Grouped 2531 Cos-Gos-Class OctelString Unsigned32 2532 Deferred-MT-LR-Data Grouped 2533 OctelString-PLMN-List Grouped 2544 PLMN-ID-List Grouped 2545 Porting-Indicator Enumerated 2546 PLA-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Errange Unsigned32 2549 Periodic-Location-Support-Indicator Enumerated 2550 Periodic-Location				
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 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 Occurrence-Info Enumerated 2530 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 PLR-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 PLR-Flags Unsigned32 2549 PLR-Flags Unsigned32 2540 Periodic-Location-Support-Indicator Enumerated 2540 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 SMC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 2554 IARTT-RCID OctetString 2550 Periodic-Location-Support-Indicator Enumerated 2551 IARTT-RCID OctetString 2550 Deferred-MS-Priority-Indicator Enumerated 2551 IARTT-RCID OctetString 2560 IMS-Application-Reference-Identifier UTF8String 2500 Occurrence-Identifier UTF8String				
1.00				
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 Coveriority-Indicator Enumerated 2521 Cell-Portion-Indicator Enumerated 2522 Cell-Portion-Indicator Enumerated 2523 Cell-Portion-Indicator Enumerated 2524 C	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]
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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 2520 Enumerated 2521 Enumerated 2522 Enumerated 2523 Enumerated 2524 Enumerated 2525 Enumerated 2526 Enumerated 2527 Enumerated 2528 Enumerated 2529 Enumerated 2520 Enumerated 2520 Enumerated 2521 Enumerated 25				
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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				
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 IRA-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. Cell IMS-Application-Reference-Identifier UTF8String 2600 IMS-Application-Reference-Identifier UTF8String Enumerated				
2536 Area-Type				
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				
2539 Interval-Time				
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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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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 2602 Low-Priority-Indicator Enumerated		U U		
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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 2602 Low-Priority-Indicator Enumerated				
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 2602 Low-Priority-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 2602 Low-Priority-Indicator Enumerated	2549	LKA-Flags		
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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2601 IMS-Application-Reference-IdentifierUTF8String2602 Low-Priority-IndicatorEnumerated			<u> </u>	
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.	UnsignedS2	
2700 Reserved	_	
2700 Reserved 2701 Transit-IOI-List	UTF8String	
2701 Hansi-loi-List 2702 Status-AS-Code	Enumerated	_
2703 NNI-Information	Grouped	
2704 NNI-Type	Enumerated	
	Address	
2705 Neighbour-Node-Address 2706 Relationship-Mode		_
	Enumerated	_
2707 Session-Direction	Enumerated	
2708 From-Address	UTF8String	32.299 [5]
2709 Access-Transfer-Information	Grouped	4
2710 Access-Transfer-Type	Enumerated	
2711 Related-IMS-Charging-Identifier	UTF8String	
2712 Related-IMS-Charging-Identifier-Node	Address	
2713 IMS-Visited-Network-Identifier	UTF8String	
2714 TWAN-User-Location-Info	Grouped	
2715 Reserved	-	
2716 BSSID	UTF8String	_
2717 TAD-Identifier	Enumerated	
Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299.		T
2800 Reserved	-	
2801 ADC-Revalidation-Time	Time	
2802 TDF-Application-Instance-Identifier	OctetString	
2803 HeNB-BBF-FQDN	UTF8String	
2804 HeNB-Local-IP-Address	Address	
2805 UE-Local-IP-Address	Address	
2806 UDP-Source-Port	Unsigned32	
2807 CS-Service-Qos-Request-Identifier	OctetString	
2808 CS-Service-QoS-Request-Operation	Enumerated	
2809 Mute-Notification	Enumerated	
2810 Monitoring-Time	Time	
2811 AN-GW-Status	Enumerated	
2812 User-Location-Info-Time	Grouped	
2813 CS-Service-Resource-Report	Time	
2814 CS-Service-Resource-Failure-Cause	Enumerated	29.212 [19]
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		
2821 Presence-Reporting-Area-Identifier	OctetString OctetString	+
		4
2822 Presence-Reporting-Area-Information	Grouped	4
2823 Presence-Reporting-Area-Status	Unsigned32	4
2824 NetLoc-Access-Support	Unsigned32	_
2825 Fixed-User-Location-Info	Grouped	_
2826 PCSCF-Restoration-Indication	Unsigned32	4
2827 IP-CAN-Session-Charging-Scope	Enumerated	
Note: The AVP codes from 2828 to 2899 are reserved for TS 29.212.		T
2900 reserved		_
2901 Policy-Counter-Identifier	Grouped	
2902 Policy-Counter-Status	UTF8String	29.219 [26]
2903 Policy-Counter-Status-Report	Grouped	_
2904 SL-Request-Type	Enumerated	
Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219.		I
T .		
3000 reserved	-	4
3001 Device-Action	- Grouped	
	- Grouped Grouped	
3001 Device-Action		29.368 [27]
3001 Device-Action 3002 Device-Notification	Grouped	29.368 [27]
3001 Device-Action 3002 Device-Notification 3003 Trigger-Data	Grouped Grouped	29.368 [27]
3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload	Grouped Grouped OctetString	29.368 [27]

South Sequest-Status	3007 Reference-Number	Unsigned32	
3009 Delivery-Outcome			
3010 Application-Port-Identifier			
29.337 272 273 273 273 273 274 2			
3012 Feature-Supported-In-Final-Target Unsigned32			
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.			
3100 P.SM-GW-Name		Unsigned32	
Diameter Identity Diameter Identity Grouped		OctotString	
Service-ID			
3104 SCS-Identity			
3105 Service-Parameters Grouped 29.336 [28] 3107 Service-Data Grouped 3108 T4-Data Grouped 3110 SiR-Flags Unsigned32 3111 External-Identifier UTF8String DiameterIdentity Note: The AVP codes from 3113 to 3199 are reserved for TS 29.336. Six-Parameters Six-Paramete			
29.336 [28]			
Service-Data Grouped			1001 200 00
3108 HS-Cause			29.330 [26]
Section Sect			
13110			
111 External-Identifier			
DiameterIdentity			
Note: The AVP codes from 3113 to 3199 are reserved for TS 29.336.			
SM-Delivery-Outcome-T4		Diameteridentity	
Absent-Subscriber-Diagnostic-T4		Facina and to d	
29.337 29		*	
			29.337 [29]
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.			
SC-Address		Unsigned32	
Mark		0-4-101	
Sance			
Sample Section Secti			
SM-Enumerated-Delivery-Failure-Cause			
3306 SM-Delivery-Timer			
3306 SM-Delivery-Timer			
3307 SM-Delivery-Start-Time			
SM-RP-MT Enumerated			
3309 SM-RP-SMEA			
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 3316 SGSN-Absent-User-Subscriber-Diagnostic SM Unsigned32 3316 SM-Delivery-Outcome Grouped 3317 MME-SM-Delivery-Outcome Grouped 3318 MSC-SM-Delivery-Outcome Grouped 3320 IP-SM-Delivery-Outcome Grouped 3321 SM-Delivery-Outcome Grouped 3321 SM-Delivery-Cause Enumerated 3322 IP-SM-GW-SM-Delivery-Outcome Grouped 3321 SM-Delivery-Cause Enumerated 3322 IP-SM-GW-SM-Delivery-Outcome Unsigned32 3323 IP-SM-GW-SM-Delivery-Outcome Grouped 3324 SM-Delivery-Cause Unsigned32 3323 IP-SM-GW-SM-Delivery-Outcome Unsigned32 3324 SMS-Fires			
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 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 3400 Reason-Header UTF8String 3400 Reason-Header UTF8String			
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3410 VCS-Information Groupe	
3411 Basic-Service-Code Groupe	
3412 Bearer-Capability OctetStri	ng
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3429 Layer-2-Group-ID OctetStri	ng
3430 Monitored-PLMN-Identifier UTF8Str	ng
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3440 ProSe-3rd-Party-Application-ID UTF8Str	
3441 ProSe-Direct-Communication-Transmission-Data-Container Groupe	
3442 ProSe-Direct-Discovery-Model Enumera	
3443 ProSe-Event-Type Enumera	
3444 ProSe-Function-IP-Address Addres	S
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3450 ProSe-Request-Timestamp Time	
3451 ProSe-Role-Of-UE Enumera	ted
3452 ProSe-Source-IP-Address Address	
3453 ProSe-UE-ID OctetStri	
3454 Proximity-Alert-Indication Enumera	
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3455 Proximity-Alert-Timestamp Time	
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3457 ProSe-Function-PLMN-Identifier UTF8Str	
3458 Application-Specific-Data OctetStri	
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3461 ProSe-Direct-Communication-Reception-Data-Container Groupe	d
3462 Radio-Frequency OctetStri	
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3464 Radio-Parameter-Set-Values OctetStr	
3465 Radio-Resources-Indicator Integer	
3466 Time-First-Reception Time	
3467 Time-First-Transmission Time	
3468 Transmitter-Info Groupe	d
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MBMS-Bearer-Result				
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Signature Unsigned32			Grouped	
Since TMG-I Deallocation-Request Grouped				
3513 TMGI-Deallocation-Response Grouped			Unsigned32	
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3515 TMG Expiry	3513 TMG	GI-Deallocation-Response	Grouped	
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Note: The AVP codes from 3518 to 3599 are reserved for TS 29.468.				
10-igin-App-Layer-User-Id				
3602 ProSe-Punction-ID			UTF8String	
3603 ProSe-Function-ID				00 0 10 [00]
Note: The AVP codes from 3605 to 3699 are reserved for TS 29.343.				29.343 [32]
Note: The AVP codes from 3605 to 3699 are reserved for TS 29.343.				
ProSe-Subscription-Data				
ProSe-Permission			Grouped	
ProSe-Allowed-PLMN				
ProSe-Direct-Allowed				
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3706 PNR-Flags				29.344 [33]
3707 ProSe-Initial-Location-Information				
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Notic: The AVP codes from 3709 to 3799 are reserved for TS 29.344.				
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3801 App-Layer-User-Id				
Assistance-info Grouped			LITEQQtring	
3803 Assistance-Info-Validity-Timer				
3804 Discovery-Type				
3805 Filter-Id OctetString 3806 MAC-Address UTF8String 3807 Match-Report Grouped Grouped Unsigned32 3808 Operating-Channel Unsigned32 3809 P2P-Features Unsigned32 3810 ProSe-App-Code UTF8String 3811 ProSe-App-Id UTF8String 3812 ProSe-App-Id UTF8String 3813 ProSe-App-Mask UTF8String 3813 ProSe-Discovery-Filter Grouped Grouped 3814 PRR-Flags Unsigned32 3816 Requesting-EPUID UTF8String 3817 Targeted-EPUID UTF8String 3818 Time-Window Unsigned32 3818 WiFi-P2P-Assistance-Info Grouped 3820 WLAN-Assistance-Info Grouped 3820 WLAN-Link-Layer-Id OctetString 3822 WLAN-Link-Layer-Id OctetString 3822 WLAN-Link-Layer-Id-List Grouped 3822 Unsigned32 3822 WLAN-Link-Layer-Id-List Grouped 3824 Location-Update-Event-Type Unsigned32 3825 Change-Of-Area-Type Grouped Grouped 3826 Location-Update-Event-Trigger Unsigned32 3826 Location-Update-Event-Trigger Unsigned32 3829 Periodic-Location-Type Grouped Grouped Grouped 3829 Periodic-Location-Type Grouped Gro				
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3809 P2P-Features				
3810 ProSe-App-Code UTF8String 3811 ProSe-App-Id UTF8String 3812 ProSe-App-Mask UTF8String UTF8String 3813 ProSe-Discovery-Filter Grouped				
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3834 Validity-Time-Communication Unsigned32				

3836 MIC	OctetString	
3837 UTC-based-Counter	Unsigned32	
3838 ProSe-Match-Refresh-Timer	Unsigned32	
Note: The AVP codes from 3839 to 3899 are 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 text	Specified in the TS					
Result Code							
2001	DIAMETER_FIRST_REGISTRATION						
2002	DIAMETER_SUBSEQUENT_REGISTRATION						
2003	DIAMETER_UNREGISTERED_SERVICE	29.229 [2]					
2004	DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED						
2005	Deprecated value						
Note: The Experime	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.						
2021	2021 DIAMETER_PDP_CONTEXT_DELETION_INDICATION 29.061 [13]						
Note: The Experime	ental Result Codes from 2022 to 2040 are reserved for the TS 29.061						
29.109 [7]							
Note: The Experime	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.						

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS	
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.	
	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]
	DIAMETER_AN_GW_FAILED	29.212[19]
4144	DIAMETER_PENDING_TRANSACTION	
Note: The Experime	ntal Result Codes from 4145 to 4160 are reserved for the TS 29.212	
		32.299 [5]
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.	
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	20 272 [24]
4182	DIAMETER_ERROR_CAMEL_SUBSCRIPTION_PRESENT	29.272 [21]
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.	
	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.	<u> </u>
	DIAMETER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	29.219 [26]
Note: The Experime	ntal Result Codes from 4242 to 4260 are reserved for the TS 29.219.	
		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	
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	erimental 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	00.00
	RIPTION	29.234 [6]
5044	DIAMETER ERROR USER NO W-APN SUBSCRIPTION	
5045	DIAMETER ERROR UNSUITABLE NETWORK	
	erimental Result Codes from 5046 to 5060 are reserved for the TS	S 29 234
5061	INVALID_SERVICE_INFORMATION	J 20.204.
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	
5064	DUPLICATED_AF_SESSION	29.209 [8],
		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) 200 TC 20 244
and	erimental Result Codes from 5069 to 5080 are reserved for TS 29 TS 29.214.	9.209, 15 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	00 000 [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	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	erimental Result Codes from 5109 to 5119 are reserved for the TS	S 20 320
5120	DIAMETER_ERROR_START_INDICATION	J 23.J23.
5121	DIAMETER_ERROR_STOP_INDICATION	20 064 [42]
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
	erimental Result Codes from 5124 to 5139 are reserved for the TS	S 29.061.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	29.212 [19]
5145	DIAMETER QOS RULE EVENT	
5145	reserved	
	DIAMETER_ERROR_CONFLICTING_REQUEST	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST DIAMETER_ADC_RULE_EVENT	
5148		<u> </u>
	erimental Result Codes from 5149 to 5159 are reserved for the TS	
5401	DIAMETEK_EKKOK_IMPI_UNKNOWN	29.109 [7

5402	DIAMETER_ERROR_NOT_AUTHORIZED	
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	
Note: The Expe	erimental 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	
	erimental Result Codes from 5424 to 5449 are reserved for the TS	S 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	
	erimental Result Codes from 5453 to 5469 are reserved for the TS	S 29 273
5470	DIAMETER ERROR SUBSESSION	0 20.270.
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME	29.215 [22]
3-71	NT	20.210 [22]
Note: The Evne	erimental Result Codes from 5472 to 5489 are reserved for the T	S 20 215
5490	DIAMETER ERROR UNAUTHORIZED REQUESTING NET	J 29.210.
3490	WORK	29.173 [25]
Note: The Eve		C 20 472
	erimental Result Codes from 5491 to 5509 are reserved for the TS	5 29.173.
5510		20, 226 [20]
5544	TY	29.336 [28]
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	2.00.000
	erimental 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	29.337 [29]
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	20.007 [20]
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5535	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING	
Note: The Expe	erimental Result Codes from 5536 to 5549 are reserved for the TS	S 29.337.
5550	DIAMETER_ERROR_ABSENT_USER	
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5553	DIAMETER_ERROR_ILLEGAL_USER	
5554	DIAMETER_ERROR_ILLEGAL_EQUIPMENT	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	
	erimental Result Codes from 5559 to 5569 are reserved for the T	S 20 338
5570	DIAMETER ERROR UNKNOWN POLICY COUNTERS	29.219 [26]
	Experimental Result Codes from 5571 to 5589 are reserved for t	
	DIAMETER ERROR ORIGIN ALUID UNKNOWN	116 13 29.219.
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	
5591		
5592	DIAMETER_ERROR_PFID_UNKNOWN	20 242 [20]
5593	DIAMETER_ERROR_APP_REGISTER_REJECT	29.343 [32]
5594	DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE	
5505	DIAMETER ERROR MAR REQUEST REJECT	
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	0.00.040
	erimental Result Codes from 5596 to 5609 are reserved for the TS	S 29.343.
5610	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION	00 0 4 4 7 5 5 7
5611	DIAMETER_ERROR_ PROSE_NOT_ALLOWED	29.344 [33]
5612	DIAMETER_ERROR_ UE_LOCATION_UNKNOWN	
	erimental Result Codes from 5613 to 5629 are reserved for the T	S 29.344.
5630	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT	
	ER	
5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P	
	LMN	
5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE	
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	29.345 [34]
5634	DIAMETER_ERROR_PROXIMITY_REJECTED	
5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	
5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_	
	PLMN	
5637	DIAMETER_ERROR_PROXIMITY_CANCELLED	
_		

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	001		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	004	1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0		
2004-12	CN#26	NP-040579	006		Inclusion of missing Cx AVPs	6.1.0	6.2.0		
2004-12	CN#26	NP-040580		1	Reservation of command code 310	6.1.0	6.2.0		
2004-12	CN#26	NP-040579	009	1	Addition of Gmb interface	6.1.0	6.2.0		
2004-12	CN#26	NP-040600	010	2	Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces	6.1.0	6.2.0		
2004-12	CN#26	NP-040579	011		Gq interface allocations	6.1.0	6.2.0		
2004-12	CN#26	NP-040579			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		
2000 00	011/1/27	NP-050039			Allocations for Gx interface	0.2.0	0.0.0		
		NP-050039			Allocations for GM interface	1			
		NP-050039			Allocations for MMS, MM10 Interface	ļ			
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.3.0	6.4.0		
2005-00	01#20	CP-050088 CP-050196		1	Addition of Maximum-Number-Accesses AVP	0.3.0	0.4.0		
2005.00	CT#29	CP-050196 CP-050440		1	Private identities on the Cx	6.4.0	6.5.0		
2005-09	01#29			1		0.4.0	0.5.0		
	1	CP-050310			Addition of Pr reference point to TS 29.230 Error code cleanup	{			
	ļ	CP-050310			Addition of Durat point and reposition of Function and Decult	ł			
		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				
	Ì	CP-050612			Reservation of AVP codes for 32.299	i			
		CP-050625			Management of Sh subscriptions				
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0		
2000 00	01//01	CP-060084			User-Data in the response to Sh-Subs-Notif	7	1.2.0		
	ŀ	CP-060084		1	New error indications for the Sh-Subs-Notif procedure	1			
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	017700	CP-060417			Errors to be sent in response to Sh-Notif	7.0.0	1		
		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	01/104	CP-060562			Addition of Diameter Error Code for Emergency Purposes	7.4.0	7.0.0		
		CP-060555			Allocation of new AVP codes for Gmb	ł			
		CP-060555			AVP code allocations for Rf and Ro interfaces	ł			
		CP-060566			Allocation of Success Result Code Range for Gi Interface	1			
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#30	CP-070020			Allocation of new AVP code for DSAI-Tag AVP	1 .5.0	7.0.0		
		CP-070020	0093		Allocation of Experimental-Result-Code AVP for Gi Interface				
2007-06	CT#36	CP-070318			Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0		
	1	CP-070312			Experimental-Result-Codes for Gmb interface	1			
	İ	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		
2007-12	CT#38	CP-070743			AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0		
	103	2. 3. 3. 10	0105		Allocation of 3GPP specific AVP codes and Experimental Result				
2007-12	CT#38	CP-070755	0101	4	Codes for Gx protocol AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0		
2001-12	31,730	51 010100	0103	_	AVP code reservation for 32.299 in Rel-8	,	3.0.0		
2008-03	CT#39	CP-080015			Correction of reference to TS 29.140	8.0.0	8.1.0		
	3.,,50	CP-080019			AVP code reservation for TS 32.299 in Rel-8]	30		
		CP-080019			Wildcarded Public User Identities	1			
		CP-080191		1	Correction on AVP code allocation reservation for TS 32.299 in	1			
		CD 000004	0440	1	Rel-7				
2000 00	CT#40	CP-080204			Correction on AVP code allocation reservation for TS 32.299	0 1 0	0.0.0		
2008-06	CT#40	CP-080267		Т	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		1	Support of "Loose-Route" indication from HSS	-			
2008-09	CT#41	CP-080460		1	STaMIP Application Id	-			
2008-09	CT#41	CP-080463	0123		Cx Impacts of IMS Restoration Procedures (New AVP Codes	J	1		

2008-09	CT#41	CP-080463	0124		Assignment) New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42	CP-080691		2	Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691			Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044			Update for ReadyForSM	8.4.0	8.5.0
2009-03	CT#43	CP-090044			Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090044		-	Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024		_	Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033			Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024			AVP codes for S9 protocol	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024		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
009-03	CT#43	CP-090024	0142	1	Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299	0129	4	Update of the AVP Codes	8.5.0	8.6.0
		CP-090299			AVP code reservation for TS 32.299	i	
	ľ	CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"	i	
	ŀ	01 000200	0146		Removal of Requesting Node Type from AIR	1	
	ł	CP-090299				┨	
222 22	OT#45				S6b Application ID	0.00	0 7 0
2009-09	CT#45	CP-090530			Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
		CP-090530			AVP code allocation for TS 29.212	1	
		CP-090531			Update of the AVP type for the User-Id	<u> </u>	
		CP-090531	0153		Trace Depth per session		
2009-09	CT#45	CP-090557			AVP code range for charging	8.7.0	9.0.0
2009-12	CT#46	CP-090800		1	ICS-Flag	9.0.0	9.1.0
.500 12	01//70	CP-091032		<u> </u>	From GMLC-Address to GMLC-Number	3.0.0	0.1.0
		01 -09 1032	0160		Session-Priority AVP	1	
				2		1	
			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		
					Identifier		
010-03	CT#47	CP-100031	0158	1	Wildcarded Public Identity	9.1.0	9.2.0
		CP-100034			Correction on AVP code allocation reservation for TS 32.299 in		
				-	Rel-9		
		CP-100046	0169	1	AVP code allocation for 29.172	1	
		CP-100036			GPL_U support in TS 29.109		
		CP-100036			Error codes in 29.172 for SLg	-	ŀ
					AVD= '= 00 070 (== TADO =======		ļ
		CP-100048		1	AVPs in 29.272 for TADS support		
		CP-100040			Error codes in 29.272 for Unknown MME		
		CP-100236		4	EPS Subcsriber State and Location Information Request		
		CP-100033			One time notification AVP allocation		ļ
		CP-100046			Addition of the LCS-QoS-Class attribute value		
		CP-100175	0182		Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
2010-06	CT#48	CP-100263	0188	1	AVP Codes for PCC	9.2.0	9.3.0
			0183		EPS state and location retrieval		
	İ	CP-100287			SGmb Application ID	1	İ
	1	CP-100277		1	New APVs in S6a protocol	1	İ
2010-09	CT#49	CP-100463			Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.0
.510 03	O 1π-13	01 100403	0131	'	interfaces	3.3.0	J.4.0
	-	CP-100464	0106		AVP Codes Allocation for PCC	1	1
010 00	CT#40	CP-100464		1	SIPTO Permission Indicator	9.4.0	10.0
010-09	CT#49					9.4.0	10.0
		CP-100466			Location data including only serving node address	4	
040.40	OT#50	CP-100466		1	AVP for Update-Eff feature	40.00	40 1
010-12	CT#50	CP-100699			Enhanced SRVCC Subscriber Data	10.0.0	10.1
		CP-100687			Allocate codes for AVPs on eMPS		
		CP-100683			Allocate codes for AVPs on LIPA		
		CP-100688	0206	1	Periodic TAU/RAU timer in HSS subscription		
		CP-100846	0203	1	S6a Error Diagnostic		
011-03	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	1	
		CP-110087	0207	2	Minimization of Drive Tests (MDT)	1	İ
		CP-110088			Relay Node Indicator AVPs	1	
011-06	CT#52	CP-110066			Handling of RTR for Emergency Registration	10.2.0	10.2
00-110	01#32					10.2.0	10.3
		CP-110347		1	Add AVPs from QSPEC cleanup	4	
		CP-110359			MIPv4 security parameters on the STa and S6b interfaces	4	
		CP-110380			MDT user consent	1	
		CP-110370		<u></u>	AVP Code Allocation for Pre-paging		
		CP-110375	0227	1	PUR-Flags AVP		
	CT#53	CP-110559			AVP code alignment with 29.212	10.3.0	10.4
011-09					AVP code alignment with 32.299	1	İ
2011-09		CP-110555	0239	1 I			
011-09		CP-110555 CP-110554			AVP code alignment with 29.214		

		CP-110555 CP-110722			Failure code and AVP code alignment with 29.212 Priviledged sender		
2011-09	CT#53	CP-110722		1	Add vSRVCC updates to the Diameter AVP code table	10.4.0	11 0 0
2011-03	01#33	CP-110579			AVP code alignment with 32.299	10.4.0	11.0.0
		CP-110555			AVP code reservation for 29.212		
2011-12	CT#54	CP-110812		1	SWx Restoration AVPs	11.0.0	11.1.0
		CP-110812			Sy and Sd Application IDs		
		CP-110775			New AVP codes for MBMS IP unicast encapsulation		
		CP-110775			New AVP codes for MBMS IP multicast encapsulation		
		CP-110786		1	MME-Realm AVP code allocation		
		CP-110811		,	Equivalent PLMN CSG Subscription Request		
2012 02	CT#55	CP-110781 CP-120025		1	Restoration of Wildcarded-IMPU AVP	11.1.0	11 2 0
2012-03	C1#55	CP-120025		ı	Codes Allocation for AVPs on Initial Attach New AVP codes for Absolute Time of MBMS Data Transfer over	11.1.0	11.2.0
		C1 -120030	0200		SGmb		
		CP-120038	0291	1	Allocating Diameter AVP codes for TS 29.219 and TS 29.212		
2012-06	CT#56	CP-120240			Codes Allocation for AVPs on NPLI	11.2.0	11.3.0
		CP-120238		1	Adding new Diameter AVPs to Diameter table to support Trusted		
					WLAN Access feature		
		CP-120225		1	Trust Relationship Indication		
		CP-120251	-	1	Corrections to reference titles		
		CP-120251		1	Diameter Code Allocation for TS 29.219		
		CP-120247		-	Network Name AVP codes		
2010.00	OT#57	CP-120219		-	Duplicated AVP names	4400	44.40
2012-09	CT#57	CP-120481			PS additional number allocation	11.3.0	11.4.0
	}	CP-120473 CP-120461			SMS in MME/SGSN AAA Failure Recovery AVP codes	1	
		CP-120461		_	Transport Access Type AVP for BBAI		
		CP-120474		1	Local Time Zone		
		CP-120470		_	Allocating Application Identifier and command code for Tsp		
		01 120472	0300		interface		
		CP-120472	0309	-	Application Identifier, Command Codes and AVP range for S6m interface		
		CP-120667	0312	1	GMLC-Name		
		02000.	0313		Reference list correction to align with the corrected TS 29.212 title		
2012-12	CT#58	CP-120731			T4 device triggering via IMS	11.4.0	11.5.0
		CP-120731			Codes and Identifier Allocation for T4 Specification		
		CP-120731	0324	-	AVP Code Allocation for 29.336		
		CP-120731		-	Diameter AVP code value allocation in TS 29.368		
		CP-120732	0319	2	Application Identifier, Command Codes and AVP codes for SGd,		
		05 400=40			S6c		
	1	CP-120716		1	AVP name modification in TS 32.299		
		CP-120742 CP-120741		1	UE Time Zone AVP Use of Flag instead of Enumerated AVPs		
		CP-120741		_	Use of Flag instead of Enumerated AVPs		
		CP-120743		-	PSI direct routing with restoration procedures		
		CP-120743		-	EPS LocationInformation Support		
2013-03	CT#59	CP-130026		1	Diameter error code for TS 29.219	11.5.0	11.6.0
		CP-130026			MDT parameters		
2013-03	CT#59	CP-130156		1	New AVPs for Lgd interface	11.6.0	12.0.0
		CP-130030		-	Validity Time of Short Message		
2013-06	CT#60	CP-130288		1	Add new DER-S6b-flag AVP	12.0.0	12.1.0
		CP-130298		-	Failure Result Codes Allocation for TS 29.219		
		CP-130292			Diameter AVP codes for new TS 32.299 AVPs	1	
	-	CP-130279		1	Definition of SS Status for Call Barring	1	
		CP-130380		-	New SGs-MME-Identity AVP		
		CP-130291	0348		New AVPs for deferred MT-LR and periodic MO-LR TTTP		
		CP-130297	0247	1	procedures over Lgd interface Application Port Identifier		
		CP-130297		1	MTRR on Sh		
		CP-130295		_	Restoration Priority during SGW and PGW restoration procedures		
		CP-130378		1	SIPTO permission for Local Network enhancements		
2013-09	CT#61	CP-130454		2	New MBMS flag for eMBMS restoration	12.1.0	12.2.0
		CP-130461		-	AVP code reservation for TS 32.299 Rel-12		
	İ	CP-130460		-	Allocation of Diameter codes and identifiers for 29.212 and 29.215	1	
2013-09	İ			-	Vendor-specific command code for Trigger-Establishment-	12.2.0	12.2.1
	<u>L</u>	1		_	Request/Answer corrected	<u>L</u>	
2013-12	CT#62	CP-130624	0369		New AVP for optimized LCS procedure for combined MME/SGSN	12.2.1	12.3.0
		CP-130631		1	Adding E-SMLC provided Cell info and Cell Portion]	
		CP-130800	0371		New AVPs for SMS for IMS UE without MSISDN in TS 29.338		
		CP-130600		1	Allocation of Diameter codes for 32.299]	
		CP-130605		-	Allocation of Diameter codes for 29.212		
		CP-130639		-	SGSN CAMEL Subscription Indication		
2014-03	CT#63	CP-140180		2	Protocol enhancements for the support of device replace procedure	12.3.0	12.4.0
	1	CP-140035	0384	- 1	New AVP for the support of combined MME/SGSN	1	l

		CP-140023	0383	1	Definition of WLAN-related AVPs]	ĺ
2014-06	CT#64	CP-140211	0385	1	Protocol enhancements to indicate support of device recall and replace by SMS-SC	12.4.0	12.5.0
	ŀ	CP-140251	0402	1	AVP allocation for Error handling, MTC error diagnostic	1	
		CP-140257			SS-Status AVP Definition	1	
		CP-140252			Definition of AVPs for Network Location in TWLAN	1	
		CP-140236			TWAN-BSSID AVP re-naming	i	
		CP-140247			New AVPs for Trusted WLAN access	Ĭ	ĺ
		CP-140231			Adding Codes for 29.214	Ĭ	ĺ
2014-09	CT#65	CP-140515	0403	1	T-GRUU restoration	12.5.0	12.6.0
		CP-140517			MB2-C codes	i	
	Ì	CP-140505	0405	1	New AVPs for Trusted WLAN access	İ	
	Ì	CP-140506			P-CSCF Restoration indication	İ	
	Ì	CP-140516			Closing TS 29.234 and reused AVP in TS 29.273	İ	
	Ì	CP-140513	0408	-	Identification of the HSS	İ	
	Ì				Editorial: WLAN-offloadability AVP codes added as in CR C4-	İ	
					141648.		
2014-12	CT#66	CP-140785	0409	1	New AVP for MBMS restoration	12.6.0	12.7.0
			0430	-	New Diagnostic-Info AVP for MBMS restoration	ĺ	ĺ
			0410	1	WLCP key for WLCP signalling protection	ĺ	ĺ
			0411		Reset-ID	ĺ	Ì
	Ì		0416	1	Code definitions for 32.299	ĺ	ĺ
	Ì		0428	-	Removal of I-WLAN AVPs	ĺ	ĺ
	Ì		0429	1	Reference correction	ĺ	ĺ
			0433	-	Code allocation for 29.212	ĺ	ĺ
			0418	-	MDT PLMN List	ĺ	ĺ
			0422	1	Codes Allocation for PC2 Protocol	ĺ	ĺ
			0423	4	Codes Allocation for PC4a Protoco	1	
			0431	3	Allocation of values for Application ID, Command codes, AVP	1	
					codes and Experimental-Result codes used in the TS 29.345		
			0434	1	Command Code and Error Code for ProSe Initial Location		Ĭ
					Information Retrieval		
			0425		Corrections of the type of some AVPs	Ţ	
			0426		OFR-Flags AVP code	Ţ	
			0427	1	P-CSCF Restoration mechanism new error		
2015-03	CT#67	CP-150015		-	Renaming of Location-Type AVP	12.7.0	12.8.0
			0437		Location reporting in emergency 1xSRVCC	ļ	ļ
			0435		AVP codes for GCSE MB2-C	ļ	ļ
			0442		New AVPs and range of transient failure result codes in TS 29.214	ļ	ļ
			0438	1	Allocation of code for Authorized-Discovery-Range AVP (TS 29.344)		
		1	0440	2	Location Update Trigger	1	İ
			0441		AVP codes allocation for Validity related AVPs for TS 29.345	1	ĺ
			0443		Allocation of codes for the Integrity Checks. Aspect AVPs	1	ĺ
2015-06	CT#68	CP-150257			AVP code allocation for Match Refresh Timer AVP in TS 29.345	12.8.0	12.9.0
		CP-150248			IP-SM-GW-Realm	1	
		CP-150245			Wrong CR implementation of CR 0416r1	1	ĺ
		CP-150249			AVP code allocation for 32.299	1	ĺ
2015-09	CT#69	CP-150431			AVP codes for TS 29.212	12 9 0	12.10.0

History

	Document history							
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