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Foreword

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1 Scope

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

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

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
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Diameter protocol; Stage 3".

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

[1] 3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx intemessage contents".	erfaces; Signalling flows and
[2] 3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter p	protocol; Protocol details".
[3] 3GPP TS 29.328: "IP Multimedia (IM) Subsystem Sh interface; St contents".	ignalling flows and message
[4] 3GPP TS 29.329: "Sh Interface based on the Diameter protocol; P	Protocol details".
[5] 3GPP TS 32.299: "Telecommunication management; Charging manapplications".	anagement; Diameter charging
[6] 3GPP TS 29.234, Release 11: "3GPP system to Wireless Local Ar interworking; Stage 3".	rea Network (WLAN)
[7] 3GPP TS 29.109: "Generic Authentication Architecture (GAA); Z Diameter protocol; Stage 3".	Zh and Zn Interfaces based on the
[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 Release 5".	on Partnership Project (3GPP)
[11] IANA"s Enterprise-Numbers: http://www.iana.org/assignments/erg	nterprise-numbers
[12] IANA"s AAA parameters register: ftp://ftp.iana.org/assignments/a	aaa-parameters/
[13] 3GPP TS 29.061: "Interworking between the Public Land Mobile packet based services and Packet Data Networks (PDN)".	Network (PLMN) supporting
[14] 3GPP TS 32.296: "Telecommunication management; Charging management;	anagement; Online Charging
[15] 3GPP TS 29.210, Release 6: "Charging rule provisioning over Gx	interface".
[16] 3GPP TS 29.140 Release 6: "Multimedia Messaging Service (MM	MS); MM10 interface based on

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

3 Definitions and abbreviations

3.1 Definitions

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

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

3.2 Abbreviations

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

AVP Attribute-Value-Pair CR Change Request

IANA Internet Assigned Numbers Authority

IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

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

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

4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

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

5 Command codes

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

5.1 Command codes allocated for 3GPP

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

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

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

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
8388620	Provide-Location-Request/Answer	PLR/PLA	20 472 [24]
8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]
8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]
8388635	Spending-Limit-Request/Answer	SLR/SLA	
8388636	Spending-Status-Notification-	SNR/SNA	29.219 [26]
	Request/Answer		
8388637	TDF-Session-Request/Answer	TSR/TSA	29.212 [19]
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]
8388639	Device-Action-Request/Answer	DAR/DAA	00 000 [07]
8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]
8388643	Device-Trigger-Request/Answer	DTR/DTA	
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	29.345 [34]
8388671	ProSe-Match-Report-Info- Request/Answer	PIR/PIA	
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	
8388674	ProSe-Alert-Request/Answer	ALR/ALA	
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	
8388676	ProXimity-Action-Request/Answer	PXR/PXA	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.

,		
Flow-Grouping	Grouped	
 Flow-Number	Unsigned32	
 Flows	Grouped	
Flow-Status	Enumerated	
Flow-Usage	Enumerated	
Specific-Action	Enumerated	
Max-Requested-Bandwidth	Unsigned32	
Max-Requested-Bandwidth-DL	Unsigned32	
Max-Requested-Bandwidth-UL	Unsigned32	
Media-Component-Description	Grouped	
Media-Component-Number	Unsigned32	
Media-Sub-Component AVP	Grouped	
Media-Type	Enumerated	
 RR-Bandwidth	Unsigned32	
RS-Bandwidth	Unsigned32	
SIP-Forking-Indication	Enumerated	
Codec-Data	OctetString	
Service-URN	OctetString	
Acceptable-Service-Info	Grouped	
Service-Info-Status	Enumerated	
MPS-Identifier	OctetString	
AF-Signalling-Protocol	Enumerated	
Sponsored-Connectivity-Data	Grouped	
Sponsor-Identity	OctetString	
Application-Service-Provider-Identity	OctetString	
Rx-Request-Type	Enumerated	
Min-Requested-Bandwidth-DL	Unsigned32	
Min-Requested-Bandwidth-UL	Unsigned32	
Required-Access-Info	Enumerated	
IP-Domain-Id GCS-Identifier	OctetString	
The AVP codes from 539 to 599 are reserved for TS 29.209, TS 29.2	OctetString	
Visited-Network-Identifier	OctetString	
 Public-Identity	UTF8String	
Server-Name	UTF8String	
Server-Capabilities	Grouped	
Mandatory-Capability	Unsigned32	
Optional-Capability	Unsigned32	
User-Data	OctetString	
SIP-Number-Auth-Items	Unsigned32	
SIP-Authentication-Scheme	UTF8String	
SIP-Authenticate	OctetString	
 SIP-Authorization	OctetString	
SIP-Authentication-Context	OctetString	
SIP-Auth-Data-Item	Grouped	
SIP-Item-Number	Unsigned32	
Server-Assignment-Type	Enumerated	
Deregistration-Reason	Grouped	
Reason-Code	Enumerated	29.229 [2]
Reason-Info	UTF8String	[2]
Charging-Information	Grouped	
Primary-Event-Charging-Function-Name	DiameterURI	
Secondary-Event-Charging-Function-Name	DiameterURI	
Primary-Charging-Collection-Function-Name	DiameterURI	
Secondary-Charging-Collection-Function-Name	DiameterURI	
User-Authorization-Type	Enumerated	
User-Data-Already-Available	Enumerated	
Confidentiality-Key	OctetString	
Integrity-Key	OctetString	
User-Data-Request-Type	Enumerated	
Supported-Features	Grouped	
Feature-List-ID	Unsigned32	
Feature-List	Unsigned32	
Supported-Applications	Grouped	
Associated-Identities	Grouped	

T T			
633 Originating-Request		Enumerated	
634 Wildcarded-Public-Identity		UTF8String	
635 SIP-Digest-Authenticate		Grouped	
636 Wildcarded-IMPU		UTF8String	
637 UAR-Flags		Unsigned32	
638 Loose-Route-Indication		Enumerated	
639 SCSCF-Restoration-Info		Grouped	
640 Path		OctetString	
641 Contact		OctetString	
642 Subscription-Info		Grouped	
643 Call-ID-SIP-Header		OctetString	
644 From-SIP-Header		OctetString	
645 To-SIP-Header		OctetString	
646 Record-Route		OctetString	
647 Associated-Registered-Iden		Grouped	
648 Multiple-Registration-Indica	on	Enumerated	
649 Restoration-Info		Grouped	
650 Session-Priority		Enumerated	
651 Identity-with-Emergency-Re	gistration	Grouped	
652 Priviledged-Sender-Indication		Enumerated	
653 LIA-Flags		Unsigned32	
654 Initial-CSeq-Sequence-Num	her	Unsigned32	
655 SAR-Flags		Unsigned32	
Note: The AVP codes from 656 to	600 are reserved for TS 20 220	Unaigneusz	
	033 ale leselveu IVI 13 23.223.	Crausad	
700 User-Identity		Grouped	
701 MSISDN		OctetString	
702 User-Data		OctetString	
703 Data-Reference		Enumerated	
704 Service-Indication		OctetString	
705 Subs-Req-Type		Enumerated	
706 Requested-Domain		Enumerated	
707 Current-Location		Enumerated	
708 Identity-Set		Enumerated	
709 Expiry-Time		Time	
710 Send-Data-Indication		Enumerated	
711 DSAI-Tag		OctetString	29.329 [4]
712 One-Time-Notification		Enumerated	29.529 [4]
713 Requested-Nodes		Unsigned32	
714 Serving-Node-Indication		Enumerated	
715 Repository-Data-ID		Grouped	
716 Sequence-Number		Unsigned32	
717 Pre-paging-Supported		Enumerated	
718 Local-Time-Zone-Indication		Enumerated	
719 UDR-Flags		Unsigned32	
720 Call-Reference-Info		Grouped	
721 Call-Reference-Number		OctetString	
722 AS-Number		OctetString	
Note: The AVP codes from 723 to	'99 are reserved for TS 29 329	2 2.3.2y	1
Note: The AVP codes from 800 to			
823 Event-Type	522 die 16561760 101 10 52.233.	Grouped	
824 SIP-Method		UTF8String	
825 Event		UTF8String	
826 Content-Type		UTF8String	
827 Content-Length		Unsigned32	
828 Content-Disposition		UTF8String	
829 Role-of-Node		Enumerated	
830 User-Session-Id		UTF8String	22 200 [5]
831 Calling-Party-Address		UTF8String	32.299 [5]
832 Called-Party-Address		UTF8String	
833 Time-Stamps		Grouped	
834 SIP-Request-Timestamp		Time	
835 SIP-Response-Timestamp			
		Timo	
026 Application Comes		Time	
836 Application-Server	porth, address	UTF8String	
836 Application-Server837 Application-provided-called-838 Inter-Operator-Identifier	party-address		

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]
	INVENTASTATISTOD-IDGICATION	Enumerated	

	MBMS-Service-Area	OctectString	
	MBMS-Session-Duration	Unsigned32	
	Alternative-APN	UTF8String	
	MBMS-Service-Type	Enumerated	
	MBMS-2G-3G-Indicator	Enumerated	
	MBMS-Session-Identity	OctetString	
909		UTF8String	
	Additional-MBMS-Trace-Info	OctetString	
	MBMS-Time-To-Data-Transfer	Unsigned32	
	MBMS-Session-Identity-Repetition-Number	Unsigned32	
	MBMS-Required-QoS	UTF8String	
	MBMS-Counting-Information	Enumerated	
	MBMS-User-Data-Mode-Indication	Enumerated	
	MBMS-GGSN-Address	UTF8String	
	MBMS-GGSN-IPv6-Address	UTF8String	
	MBMS-BMSC-SSM-IP-Address	UTF8String	
	MBMS-BMSC-SSM-IPv6-Address	UTF8String	
	MBMS-Flow-Identifier	OctetString	
	CN-IP-Multicast-Distribution	Enumerated	
	MBMS-HC-Indicator	Enumerated	
	MBMS-Access-Indicator	Enumerated	
	MBMS-GW-SSM-IP-Address	OctetString	
	MBMS-GW-SSM-IPv6-Address	OctetString	
	MBMS-BMSC-SSM-UDP-Port	OctetString	
	MBMS-GW-UDP-Port	OctetString	
	MBMS-GW-UDP-Port-Indicator	Enumerated	
	MBMS-Data-Transfer-Start	Unsigned64	
	MBMS-Data-Transfer-Stop	Unsigned64	
	MBMS-Flags	Unsigned32	
	Restart-Counter	Unsigned32	
	Diagnostic-Info	Unsigned32	
	The AVP codes from 934 to 999 are reserved for TS 29.061	Course a veste al	
	Bearer-Usage	Enumerated	
	Charging-Rule-Install Charging-Rule-Remove	Grouped Grouped	
	Charging-Rule-Remove Charging-Rule-Definition	Grouped	
	Charging-Rule-Base-Name	UTF8String	
	Charging-Rule-base-Name Charging-Rule-Name	OctetString	
	Event-Trigger	Enumerated	
	Metering-Method	Enumerated	
1007	Offline	Enumerated	
	Online	Enumerated	
	Precedence	Unsigned32	
	Reporting-Level	Enumerated	
	TFT-Filter	IPFilterRule	
	TFT-Packet-Filter-Information	Grouped	
	ToS-Traffic-Class	OctetString	
	QoS-Information	Grouped	
	Charging-Rule-Report	Grouped	29.212 [19]
	PCC-Rule-Status	Enumerated	20.212[10]
	Bearer-Identifier	OctetString	
	Bearer-Operation	Enumerated	
	Access-Network-Charging-Identifier-Gx	Grouped	
	Bearer-Control-Mode	Enumerated	
	Network-Request-Support	Enumerated	
	Guaranteed-Bitrate-DL	Unsigned32	
	Guaranteed-Bitrate-UL	Unsigned32	
	IP-CAN-Type	Enumerated	
	QoS-Class-Identifier	Enumerated	
	QoS-Negotiation	Enumerated	
	QoS-Upgrade	Enumerated	
	Rule-Failure-Code	Enumerated	
	RAT-Type	Enumerated	
	Event-Report-Indication	Grouped	
	Allocation-Retention-Priority	Grouped	
. 55 7	,	Jioapou	

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	-	

1241 InVIRO. Sicroge Requested Enumerated	4047 DDD 0	Figure 2 and 2 al	
1249 Service-Specific-Info 1251 Requested-Party-Address UTFSString 1261 Requested-Party-Address UTFSString 1262 PoC-User-Role-IDS UTFSString 1263 PoC-User-Role-IDS UTFSString 1264 PoC-User-Role-ID-Units Enumerated 1265 Rever-Role-In-Outis Enumerated 1265 Service-Specific-Type Unsigned32 1265 Service-Specific-Type Unsigned32 1267 Service-Specific-Type Unsigned32 1268 Participant-Group Grouped 1269 Participant-Group Grouped 1269 Participant-Group Grouped 1261 PoC-Change-Conditions Enumerated 1262 PoC-Change-Conditions Enumerated 1263 Paccess-Network-Information OctetString 1264 Tringger Grouped 1265 Envelope-End-Time Time 1265 Envelope-End-Time Time 1266 Envelope-End-Time Time 1267 Envelope-End-Time Time 1268 Envelope-Start-Time Time 1270 Time-Quata-Hechanism Grouped 1271 Time-Quata-Hechanism Grouped 1272 Early-Medic-Description Grouped 1273 SDP-TimeStamp Time 1274 SDP-Differ-Imestamp Time 1275 SDP-Answer-Timestamp Time 1276 AF-Correlation-Information Grouped 1277 Time-Quata-Type Enumerated 1278 SDP-Answer-Timestamp Time 1279 SDP-Answer-Timestamp Time 1276 AF-Correlation-Information Grouped 1277 Time-Quata-Type Enumerated 1278 SDP-Answer-Timestamp Time 1278 SDP-Answer-Timestamp Time 1279 SDP-Answer-Timestamp Time 1278 SDP-Answer-Timestamp Time 1279 SDP-Answer-Timestamp Time 1279 SDP-Answer-Timestamp Time 1279 SDP-Answer-Timestamp Time 1279 SDP-Answer-Timestamp Time 1271 SDP-Answer-Timestamp Time 1272 SDP-Answer-Timestamp Time 1273 SDP-Offer-Timestamp Time 1275 SDP-Answer-Timestamp Time 1276 AF-Correlation-Information Grouped 1277 SDP-Offer-Dreaded-Talk-Burst Unsigned32 1281 IMS-Communication-Sperice-Identifier Unsigned32 1282 Mu	1247 PDP-Context-Type	Enumerated	
1250 Called-Asserted-Identity			
1251 Requested-Party-Address			
1262 PoC-User-Role Grouped			
1253 PoC-User-Role-InO-Units			
1255 Talk Burst-Exchange Grouped 1256 Service-Generic-Information 1256 Service-Generic-Information 1257 Service-Specific-Type 1258 Service-Specific-Type 1258 Pertic-Charging TimeStamp 1769 1258 Pertic-Charging TimeStamp 1760 Participant-Access-Protity 1269 Participant-Access-Protity 1260 Participant-Group 1271 Flo-C-Change-Conditions 1760 Participant-Group 1272 Flo-C-Change-Conditions 1760 Participant-Group 1272 Flo-C-Change-TimeStamp 1760 Participant-Group 1273 Flo-C-Change-Time Stamp 1274 Flo-C-Change-Time Time 1275 Flo-C-Change-Time Time 1275 Flo-C-Change-Time Time 1276 Flo-C-Change-Time Time 1277 Flo-C-Change-Time Time 1278 Flo-C-Change-Time Time 1279 Flo-C-Change-Time Time 1279 Flo-C-Change-Time Time 1270 Flo-C-Change-Time Time 1270 Flo-C-Change-Time Time 1271 Flo-C-Change-Time Time 1272 Flo-C-Change-Time Time 1273 Flo-C-Change-Time Time 1274 SDP-C-Change-Time Time 1275 SDP-Answer-Timestamp 1271 Flo-C-Change-Time-Time 1275 SDP-Answer-Timestamp 1276 Flo-C-Change-Time-Time 1275 SDP-Answer-Timestamp 1276 AF-C-Craclation-Information Grouped 1277 PC-C-Session-Initiation-type 1278 GAF-C-Craclation-Information Grouped 1279 Flo-C-Changing 1279 User-Participating-Type 1270 Flo-C-Changing 1270 Flo-C-Changing 1270 Flo-C-Changing 1270 Flo-C-Changing 1271 Flo-C-Change-Time-Time 1275 SDP-Answer-Time-Service-Identifier 1276 Flo-C-Change-Time-Time 1278 Offine-Changing 1279 User-Participating-Type 1270 Flo-C-Change-Time-Time-Time-Time-Time-Time-Time-Tim			
1255 Talk-Burst-Exchange	1253 PoC-User-Role-IDs	UTF8String	
1256 Service-Senetic-Information Grouped 1257 Service-Specific-Type Unsigned32 1258 Event-Charging-TimeStamp Time 1259 Participant-Access-Priority Grouped 1260 Participant-Group Grouped 1261 Poc-Change-Conditions Enumerated 1262 Poc-Change-Time Time 1263 Access-Network-Information OctetString 1264 fragger Grouped 1265 Base-Time-Interval Unsigned32 1266 Envelope-Reporting Enumerated 1267 Envelope-Reporting Enumerated 1268 Envelope-Reporting Enumerated 1269 Envelope-Reporting Enumerated 1260 Envelope-Reporting Enumerated 1261 Fore-Change-Start-Time Time 1270 Time-Quota-Type Enumerated 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 Fore-Session-Initiation-type Enumerated 1278 Office-Charging Grouped 1279 User-Participating-Type Enumerated 1279 Grouped Grouped 1279 User-Participating-Type Enumerated 1276 AF-Correlation-Information Grouped 1279 User-Participating-Type Enumerated 1278 Office-Charging Grouped 1279 User-Participating-Type Enumerated 1278 Office-Charging Grouped 1279 User-Participating-Type Enumerated 1279 User-Participating-Type Enumerated 1279 User-Participating-Type Enumerated 1279 User-Participating-Type Enumerated 1280 Alternatic-Charged-Party-Address Urrisping 1281 Mak-Durisping-Type Enumerated 1282 Number-Of-Received-Talk-Bursts Unsigned32 1284 Received-Talk-Burst-Time Unsigned32 1285 Received-Talk-Burst-Time Unsigned32 1286 Reversed-Talk-Burst-Time Unsigned32 1287 Talk-Burst-Volume Unsigned32 1400 ULA-Flags Unsigned32 Unsigned32 1410 ULA-Flags Unsigned32 Unsigned32 1411 Re-Synchronization-Info Grouped 1412 Urrisping-Type Enumerated Unsigned32 Unsigned3	1254 PoC-User-Role-info-Units	Enumerated	
1257 Service-Specific-Type	1255 Talk-Burst-Exchange	Grouped	
1257 Service-Specific-Type	1256 Service-Generic-Information	Grouped	
1258 Participant-Access-Priority Enumerated 1269 Participant-Access-Priority Grouped 1261 PoC-Change-Conditions Enumerated 1261 PoC-Change-Conditions Enumerated 1262 PoC-Change-Conditions Time 1263 Access-Network-Information OctetString 1264 Tingger Grouped 1265 Base-Time-Interval Unsigned32 1266 Envelope-Reporting Enumerated 1267 Envelope-Reporting Enumerated 1268 Envelope-Reporting Enumerated 1269 Envelope-Reporting Enumerated 1269 Envelope-Start-Time Time 1270 Time-Quota-Mychanism Grouped 1271 Time-Quota-Mychanism Grouped 1272 Early-Media-Description Grouped 1273 SDP-TimeStamps Grouped 1274 SDP-Offer-Timestamp Time 1276 AF-Correlation-Information Grouped 1277 SDP-TimeStamps Grouped 1277 SDP-TimeStamp Time 1276 AF-Correlation-Information Grouped 1277 Grouped-Party-Address UTF8Sting 1278 University Grouped 1279 User-Participating-Type Enumerated 1279 User-Participating-Type Enumerated 1279 User-Participating-Type Enumerated 1278 Diffine-Charging Grouped 1279 User-Participating-Type Enumerated 1279 User-Participating-Type Enumerated 1279 User-Participating-Type Unsigned32 1280 Number-Of-Talk-Bursts Unsigned32 1281 MS-Communication-Service-Identifier UTF8String 1282 Number-Of-Talk-Burst Unsigned32 1283 Number-Of-Talk-Burst-Time Unsigned32 1286 Talk-Burst-Time Unsigned32 1287 Talk-Burst-Time Unsigned32 1288 Media-Initiator-Party Unsigned32 1289 Talk-Burst-Time Unsigned32 1280 Talk-Burst-Time Unsigned32 1281 Talk-Gurst-Time Unsigned32 1282 Talk-Burst-Time Unsigned32 1283 Talk-Burst-Time Unsigned32 1284 Received-Talk-Burst-Time Unsigned32 1285 Talk-Burst-Time Unsigned32 1286 Talk-Burst-Time Unsigned32 1287 Talk-Burst-Time Unsigned32 1288 Media-Initiator-Party Unsigned32 129 Unsigned32 Unsigned32 129 Unsigned32 Unsigned32	1257 Service-Specific-Type		
1259 Participant-Access-Priority			
1260 Participant-Group Grouped 1261 Pac-C-hange-Conditions Enumerated 1262 Pac-Change-Time Time 1263 Access-Network-Information Grouped 1265 Base-Time-Interval Unsigned32 1266 Envelope Grouped 1267 Envelope-End-Time Time 1268 Envelope-End-Time Time 1268 Envelope-Reporting Enumerated 1269 Envelope-Reporting Enumerated 1270 Time-Quota-Hype Enumerated 1271 Time-Quota-Hype Enumerated 1272 Early-Media-Description Grouped 1274 SDP-Offer-Timestamp Time 1274 SDP-Offer-Timestamp Time 1275 SDP-Answer-Timestamp Time 1276 SDP-Answer-Timestamp Time 1276 SDP-Answer-Timestamp Time 1276 SDP-Answer-Timestamp Time 1276 SDP-Answer-Timestamp Time 1277 SDP-Answer-Timestamp Time 1278 SDP-Answer-Timestamp Time 1278 SDP-Answer-Timestamp Time 1279 SDP-Answer-Timestamp Time 1279 SDP-Answer-Timestamp Time 1278 SDP-Answer-Timestamp Time 1278 SDP-Answer-Timestamp Time 1278 SDP-Answer-Timestamp Time 1279 SDP-Answer-Timestamp Time 1278 SDP-Answer-Timestamp Time 1279 SDP-Answer-Timestamp 1279 SDP-Answer-Ti			
1261 PoC-Change-Conditions Enumerated 1262 PoC-Change-Time Time Time 1263 Access-Network-Information OctetString Grouped 1264 Trigger Grouped 1265 Base-Time-Interval Unsigned32 1266 Envelope Grouped 1267 Envelope-End-Time Time Time 1268 Envelope-Reporting Enumerated 1269 Envelope-Start-Time Time Time 1270 Time-Quota-Mechanism Grouped 1271 Time-Quota-Mechanism Grouped 1272 Early-Media-Description Grouped 1273 SDP-TimeStamps Grouped 1273 SDP-TimeStamps Grouped 1274 SDP-Chert-Timestamp Time 1276 AF-Correlation-Information Grouped 1277 SDP-Answer-Timestamp Time 1276 AF-Correlation-Information Grouped 1278 Office-Charging Grouped 1279 Grouped 1270 Grouped			
1262 PoC-Change-Time		·	
1263 Access-Network-Information			
1264 Trigger Grouped 1265 Base-Time-Interval Unsigned32 1266 Envelope Grouped 1267 Envelope-End-Time Time Time 1268 Envelope-Reporting Enumerated 1269 Envelope-Start-Time Time Time 1270 Time-Quota-Mechanism Grouped 1271 Time-Quota-Mechanism Grouped 1271 Time-Quota-Mechanism Grouped 1272 Early-Media-Description Grouped 1273 SDP-TimeStamps 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 DIFFERSION Grouped 1279 User-Participating-Type Enumerated 1280 Alternate-Charged-Party-Address UTF8String 1281 IMS-Communication-Service-Identifier UTF8String 1282 Number-Ol-Received-Talk-Bursts Unsigned32 1283 Number-Ol-Received-Talk-Burst Unsigned32 1284 Received-Talk-Burst-Time Unsigned32 1285 Received-Talk-Burst-Time Unsigned32 1286 Talk-Burst-Volume Unsigned32 1287 Talk-Burst-Volume Unsigned32 1287 Talk-Burst-Volume Unsigned32 1288 Media-Initiator-Party UTF8String UTF8String 1400 US-Flags Unsigned32 1407 Visited PLMN Id OctetString 1408 Requested-UTRAN-GERAN-Authentication-Info Grouped 1414 Immediate-Response-Preferred Unsigned32 1417 Responded 1418 HZ-MN-Vector Grouped 1414 EUTRAN-Vector Grouped			
1265 Base-Time-Interval			
1266 Envelope			
Time			
Envelope-Reporting			
Envelope-Start-Time			
1270 Time-Quota-Type			
Time-Quota-Type			
1272 Early-Media-Description Grouped		·	
1273 SDP-TimeStamps			
1274 SDP-Offer-Timestamp	1272 Early-Media-Description		
1275 SDP-Answer-Timestamp	1273 SDP-TimeStamps	Grouped	
1276 AF-Correlation-Information Grouped 1277 PoC-Session-Initiation-type Enumerated 1278 Offline-Charging Grouped 1279 User-Participating-Type Enumerated 1280 Alternate-Charged-Parly-Address UTF8String 1281 IMS-Communication-Service-Identifier UTF8String 1282 Number-Of-Received-Talk-Bursts Unsigned32 1283 Number-Of-Raceived-Talk-Bursts Unsigned32 1284 Received-Talk-Burst-Time Unsigned32 1285 Received-Talk-Burst-Volume Unsigned32 1286 Talk-Burst-Time Unsigned32 1287 Talk-Burst-Volume Unsigned32 1288 Media-Initiator-Party UTF8String 1400 Subscription-Data Grouped 1401 Terminal-Information Grouped 1401 Terminal-Information UTF8String 1402 IME UTF8String 1403 Software-Version UTF8String 1404 UJK-Flags Unsigned32 1406 UJA-Flags Unsigned32 1407 Visited PLMN Id OctetString 1408 Requested-UTRAN-Authentication-Info Grouped 1419 Requested-UTRAN-GERAN-Authentication-Info Grouped 1410 Requested-UTRAN-GERAN-Authentication-Info Grouped 1411 Re-Synchronization-Info Grouped 1412 Immediate-Response-Preferred Unsigned32 1413 Authentication-Info Grouped 1414 E-UTRAN-Vector Grouped 1415 UTRAN-Vector Grouped 1416 GERAN-Vector Grouped 1417 Network-Access-Mode Enumerated 1418 HPLMN-ODB Enumerated 1419 Item-Number Unsigned32 1420 Cancellation-Type Enumerated 1440 Cancellation-Type Enumerated 1440 Cancellation-Type	1274 SDP-Offer-Timestamp	Time	
1277 PoC-Session-Initiation-type	1275 SDP-Answer-Timestamp	Time	
1277 PoC-Session-Initiation-type	1276 AF-Correlation-Information	Grouped	
1278 Offline-Charging	1277 PoC-Session-Initiation-type		
1279 User-Participating-Type			
1280 Alternate-Charged-Party-Address		·	
1281 IMS-Communication-Service-Identifier UTF8String 1282 Number-Of-Received-Talk-Bursts Unsigned32 1283 Number-Of-Talk-Bursts Unsigned32 1284 Received-Talk-Burst-Time Unsigned32 1285 Received-Talk-Burst-Volume Unsigned32 1286 Talk-Burst-Volume 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 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 1410 Number-Of-Requested-Vectors Unsigned32 1411 Re-Synchronization-Info Grouped 1412 Immediate-Response-Preferred Unsigned32 1413 Authentication-Info Grouped 1414 E-UTRAN-Vector			
1282 Number-Of-Received-Talk-Bursts			
1283 Number-Of-Talk-Bursts Unsigned32 1284 Received-Talk-Burst-Time Unsigned32 1285 Received-Talk-Burst-Volume Unsigned32 1286 Talk-Burst-Time Unsigned32 1287 Talk-Burst-Volume Unsigned32 1287 Talk-Burst-Volume Unsigned32 1288 Media-Initiator-Party UTF8String UNF8String			
1284 Received-Talk-Burst-Time Unsigned32 1285 Received-Talk-Burst-Volume Unsigned32 1286 Talk-Burst-Time Unsigned32 1287 Talk-Burst-Volume Unsigned32 1288 Media-Initiator-Party UTF8String Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 Grouped 1401 Terminal-Information Grouped 1401 Image: Terminal-Information UTF8String 1402 IMEI UTF8String 1403 Software-Version UTF8String 1404 QoS-Subscribed UTF8String 1405 ULA-Flags Unsigned32 1406 ULA-Flags Unsigned32 1407 Visited PLMN Id OctetString 1408 Requested-EUTRAN-Authentication-Info Grouped 1409 Requested-UTRAN-Authentication-Info Grouped 1410 Number-Of-Requested-Vectors Unsigned32 1411 Re-Synchronization-Info Grouped 1412 Immediate-Response-Preferred Unsigned32 <td></td> <td></td> <td></td>			
1285 Received-Talk-Burst-Volume			
Talk-Burst-Time			
Talk-Burst-Volume			
1288 Media-Initiator-Party			
Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299 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 1411 Re-Synchronization-Info OctetString 1412 Immediate-Response-Preferred Unsigned32 1413 Authentication-Info Grouped 1414 E-UTRAN-Vector Grouped 1415 UTRAN-Vector Grouped 1416 GERAN-Vector Grouped 1417 Network-Access-Mode Enumerated 1418 HPLMN-ODB Enumerated 1419 Item-Number Unsigned32 1420 Cancellation-Type Enumerated		5	
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1402 IMEIUTF8String1403 Software-VersionUTF8String1404 QoS-SubscribedUTF8String1405 ULR-FlagsUnsigned321406 ULA-FlagsUnsigned321407 Visited PLMN IdOctetString1408 Requested-EUTRAN-Authentication-InfoGrouped1409 Requested-UTRAN- GERAN-Authentication-InfoGrouped1410 Number-Of-Requested-VectorsUnsigned321411 Re-Synchronization-InfoOctetString1412 Immediate-Response-PreferredUnsigned321413 Authentication-InfoGrouped1414 E-UTRAN-VectorGrouped1415 UTRAN-VectorGrouped1416 GERAN-VectorGrouped1417 Network-Access-ModeEnumerated1418 HPLMN-ODBEnumerated1419 Item-NumberUnsigned321420 Cancellation-TypeEnumerated			
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1404QoS-SubscribedUTF8String1405ULR-FlagsUnsigned321406ULA-FlagsUnsigned321407Visited PLMN IdOctetString1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated			
1405ULR-FlagsUnsigned321406ULA-FlagsUnsigned321407Visited PLMN IdOctetString1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated			
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1406ULA-FlagsUnsigned321407Visited PLMN IdOctetString1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated			
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1408Requested-EUTRAN-Authentication-InfoGrouped1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated			
1409Requested-UTRAN- GERAN-Authentication-InfoGrouped1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated			
1410Number-Of-Requested-VectorsUnsigned321411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated			
1411Re-Synchronization-InfoOctetString1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated			
1412Immediate-Response-PreferredUnsigned321413Authentication-InfoGrouped1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated			29.272 [21]
1413 Authentication-InfoGrouped1414 E-UTRAN-VectorGrouped1415 UTRAN-VectorGrouped1416 GERAN-VectorGrouped1417 Network-Access-ModeEnumerated1418 HPLMN-ODBEnumerated1419 Item-NumberUnsigned321420 Cancellation-TypeEnumerated			
1414E-UTRAN-VectorGrouped1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated			
1415UTRAN-VectorGrouped1416GERAN-VectorGrouped1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated			
1416 GERAN-VectorGrouped1417 Network-Access-ModeEnumerated1418 HPLMN-ODBEnumerated1419 Item-NumberUnsigned321420 Cancellation-TypeEnumerated			
1417Network-Access-ModeEnumerated1418HPLMN-ODBEnumerated1419Item-NumberUnsigned321420Cancellation-TypeEnumerated			
1418 HPLMN-ODBEnumerated1419 Item-NumberUnsigned321420 Cancellation-TypeEnumerated			
1419 Item-NumberUnsigned321420 Cancellation-TypeEnumerated			
1420 Cancellation-Type Enumerated			
1421 DSR-Flags Unsigned32			
	1421 DSR-Flags	Unsigned32	

1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
1426 Access-Restriction-Data	UTF8String	
1427 APN-OI-Replacement	UTF8String	
1428 All-APN-Configurations-Included-Indicator	Enumerated	
1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile	Grouped	
1432 VPLMN-Dynamic-Address-Allowed	Enumerated	
1433 STN-SR	OctetString	
1434 Alert-Reason	Enumerated	
1435 AMBR	Grouped	
1436 CSG-Subscription-Data	Grouped	
1437 CSG-Id	Unsigned32	
1438 PDN-GW-Allocation-Type	Enumerated	
1439 Expiration-Date	Time	
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32	
1441 IDA-Flags	Unsigned32	
1442 PUA-Flags	Unsigned32	
1443 NOR-Flags	Unsigned32	
1444 User-Id	UTF8String	
1445 Equipment-Status	Enumerated	
1446 Regional-Subscription-Zone-Code	OctetString	
1447 RAND	OctetString	
1448 XRES	OctetString	
1449 AUTN	OctetString	
1450 KASME		
1451 Reserved	OctetString	
	- A d dvo o o	
1452 Trace-Collection-Entity	Address	
1453 Kc	OctetString	
1454 SRES	OctetString	
1455 Reserved		
1456 PDN-Type	Enumerated	
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated	
1458 Trace-Data	Grouped	
1459 Trace-Reference	OctetString	
1460 Reserved	-	
1461 Reserved	-	
1462 Trace-Depth	Enumerated	
1463 Trace-NE-Type-List	OctetString	
1464 Trace-Interface-List	OctetString	
1465 Trace-Event-List	OctetString	
1466 OMC-ld	OctetString	
1467 GPRS-Subscription-Data	Grouped	
1468 Complete-Data-List-Included-Indicator	Enumerated	
1469 PDP-Context	Grouped	
1470 PDP-Type	OctetString	
1471 3GPP2-MEID	OctetString	
1472 Specific-APN-Info	Grouped	
1473 LCS-Info	Grouped	
1474 GMLC-Number	OctetString	
1475 LCS-PrivacyException	Grouped	
1476 SS-Code	OctetString	
1477 SS-Status	OctetString	
1478 Notification-To-UE-User	Enumerated	
1479 External-Client	Grouped	
1480 Client-Identity	OctetString	
1481 GMLC-Restriction	Enumerated	
1482 PLMN-Client	Enumerated	
1483 Service-Type	Grouped	
1484 ServiceTypeIdentity	Unsigned32	
1485 MO-LR	Grouped	
1486 Teleservice-List	Grouped	
1 1 00 16636 1106-L131	Groupeu	

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	
1755 OSCI Otale	
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	00 070 [00]
1518 AAA-Failure-Indication Unsigned32	29.273 [20]
1519 Transport-Access-Type Enumerated	
1520 DER-Flags Unsigned32	
1521 DEA-Flags Unsigned32	
1522 RAR-Flags Unsigned32	
1523 DER-S6b-Flags Unsigned32	
1524 SSID UTF8String	
1525 HESSID UTF8String	
1526 Access-Network-Info Grouped	
1527 TWAN-Connection-Mode Unsigned32	
1528 TWAN-Connectivity-Parameters Grouped	
1529 Connectivity-Flags Unsigned32	
1530 TWAN-PCO OctetString	
1531 TWAG-CP-Address Address	
1532 TWAG-CF-Address UTF8String	
1533 TWAN-S2a-Failure-Cause 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	1: 0000 =0
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.234 and is now defined as 272 (co. 272 for a 272 for	ea in 3GPP TS
29.273 from Rel-12.	
1600 MME-Location-Information Grouped	
1601 SGSN-Location-Information Grouped	
1602 E-UTRAN-Cell-Global-Identity OctetString	
1603 Tracking-Area-Identity OctetString	
1604 Cell-Global-Identity OctetString	
	29.272 [21]
1604 Cell-Global-IdentityOctetString1605 Routing-Area-IdentityOctetString	29.272 [21]
1604 Cell-Global-IdentityOctetString1605 Routing-Area-IdentityOctetString1606 Location-Area-IdentityOctetString	29.272 [21]
1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Location-Area-Identity OctetString 1607 Service-Area-Identity OctetString	29.272 [21]
1604 Cell-Global-IdentityOctetString1605 Routing-Area-IdentityOctetString1606 Location-Area-IdentityOctetString1607 Service-Area-IdentityOctetString1608 Geographical-InformationOctetString	29.272 [21]
1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Location-Area-Identity OctetString 1607 Service-Area-Identity OctetString	29.272 [21]

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	UTF8Strina UTF8	
	UTF8String Unsigned32	
1665 SIPTO-Local-Network-Permission	Unsigned32	
1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID	Unsigned32 DiameterIdentity	
1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability	Unsigned32 DiameterIdentity Grouped	
1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability 1668 WLAN-offloadability-EUTRAN	Unsigned32 DiameterIdentity Grouped Unsigned32	
1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability 1668 WLAN-offloadability-EUTRAN 1669 WLAN-offloadability-UTRAN	Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32	
1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability 1668 WLAN-offloadability-EUTRAN 1669 WLAN-offloadability-UTRAN 1670 Reset-ID	Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 OctetString	
1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability 1668 WLAN-offloadability-EUTRAN 1669 WLAN-offloadability-UTRAN 1670 Reset-ID 1671 MDT-Allowed-PLMN-Id	Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 OctetString OctetString	
1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability 1668 WLAN-offloadability-EUTRAN 1669 WLAN-offloadability-UTRAN 1670 Reset-ID 1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS	Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Unsigned32 OctetString OctetString	
1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability 1668 WLAN-offloadability-EUTRAN 1669 WLAN-offloadability-UTRAN 1670 Reset-ID 1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 2000 SMS-Information	Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Unsigned32 OctetString OctetString 29.272. Grouped	20 000 55
1664 SGs-MME-Identity 1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID 1667 WLAN-offloadability 1668 WLAN-offloadability-EUTRAN 1669 WLAN-offloadability-UTRAN 1670 Reset-ID 1671 MDT-Allowed-PLMN-Id Note: The AVP codes from 1672 to 1699 are reserved for TS 2000 SMS-Information 2001 Data-Coding-Scheme 2002 Destination-Interface	Unsigned32 DiameterIdentity Grouped Unsigned32 Unsigned32 Unsigned32 OctetString OctetString	32.299 [5

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

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	_	
	-	22 200 [5]
2109 reserved	- Cravina d	32.299 [5]
2110 IM-Information	Grouped	
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112 Number-Of-Messages-Successfully-Sent	Unsigned32	
2113 Total-Number-Of-Messages-Exploded	Unsigned32	
2114 Total-Number-Of-Messages-Sent	Unsigned32	
2115 DCD-Information	Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String	
2118 Charge-Reason-Code	Enumerated	
Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299.		
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
	Unsigned32	
2202 Subsession-Id		
2203 Subsession-Operation	Enumerated	00 045 [00]
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.		
2300 reserved	-	
2301 SIP-Request-Timestamp-Fraction	Unsigned32	
2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2303 Online-Charging-Flag	Enumerated	
2304 CUG-Information	OctetString	
2305 Real-Time-Tariff-Information	Grouped	
2306 Tariff-XML	UTF8String	
2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
2309 Account-Expiration	Time	
2310 AoC-Format	Enumerated	
2311 AoC-Service	Enumerated	32.299 [5]
2312 AoC-Service-Obligatory-Type	Grouped	52.200 [0]
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	-	
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator	Enumerated	
2323 MBMS-Charged-Party	Enumerated	
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.	1 0 : :0:	
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	20 472 [25]
2404 LCS-Capabilities-Sets	Unsigned32	29.173 [25]
2405 GMLC-Address	Address	
	7 (441 000	
2406 Additional-Serving-Node 2407 PPR-Address	Grouped Address	

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			OffsignedS2	
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-Ression 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-Sensorioning-Data OctelString 2529 UTRAN-AGNSS-Positioning-Data OctelString 2520 UTRAN-Positioning-Data OctelString 2521 LCS-Gos-Class Unsigned32 2521 UTRAN-Positioning-Data OctelString 2522 UTRAN-Positioning-Data OctelString 2523 Agra-Event-Info Grouped 2534 Agra-Positioning-Data OctelString 2531 LOS-Reference-Number OctelString 2532 OctelString OctelString 2533 Area-Event-Info Grouped 2534 Area-Positioning-Data OctelString 2535 Area-Horelinion Grouped 2536 Area-Positioning-Data OctelString 2537 Area-Identification Grouped 2538 Occurrence-Info Grouped 2539 Area-Horelinion Grouped 2530 Area-Information Grouped 2531 CS-Reference-Info Enumerated 2532 Deferred-Information Grouped 2534 Reporting-Interval Unsigned32 2540 Periodic-LDR-Information Grouped 2541 Reporting-Interval Grouped 2542 ELR-Flags Unsigned32 2543 Reporting-Interval Grouped 2544 PLR-Flags Unsigned32 2545 Porting-Indicator Enumerated 2546 PLA-Flags Unsigned32 2547 Deferred-Unit-Information Enumerated 2548 Erroring-PLMN-List Grouped 2549 Erroring-Information Enumerated 2540 Province-Information Enumerated 2541 Erroring-Information Enumerated 2542 ERRORING-POSTORING-P				
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				
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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 PLA-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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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				
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.	Offsighed32	
2700 Reserved		
2700 Reserved 2701 Transit-IOI-List	UTF8String	
2701 Hansi-lor-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	-
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.		
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	29.212 [19]
2814 CS-Service-Resource-Failure-Cause	Enumerated	
2815 CS-Service-Resource-Result-Operation	Enumerated	
2816 Default-QoS-Information	Grouped	
2817 Default-QoS-Name	UTF8String	
2818 Conditional-APN-Aggregate-Max-Bitrate	Grouped	
2819 RAN-NAS-Release-Cause	OctetString	_
2820 Presence-Reporting-Area-Elements-List	OctetString	+
2821 Presence-Reporting-Area-Identifier	OctetString	+
2822 Presence-Reporting-Area-Information	Grouped	+
		+
2823 Presence-Reporting-Area-Status	Unsigned32 Unsigned32	-
2824 NetLoc-Access-Support		-
2825 Fixed-User-Location-Info	Grouped	-
2826 PCSCF-Restoration-Indication	Unsigned32	
Note: The AVP codes from 2827 to 2899 are reserved for TS 29.212.		
2900 reserved		4
2901 Policy-Counter-Identifier	Grouped	00 040 (00)
2902 Policy-Counter-Status	UTF8String	29.219 [26]
2903 Policy-Counter-Status-Report	Grouped	1
2904 SL-Request-Type	Enumerated	
Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219.		
3000 reserved	-	4
3001 Device-Action	Grouped	
3002 Device-Notification	Grouped	
3003 Trigger-Data	Grouped	29.368 [27]
3004 Payload	OctetString	29.308 [27]
3005 Action-Type	Enumerated	
3006 Priority-Indication	Enumerated	
3007 Reference-Number	Unsigned32	7
	<u> </u>	•

2000 Degreet Status	Course rate d	
3008 Request-Status	Enumerated	
3009 Delivery-Outcome	Enumerated	
3010 Application-Port-Identifier	Unsigned32	
3011 Old-Reference-Number	Unsigned32	
3012 Feature-Supported-In-Final-Target	Unsigned32	
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.	O-t-tOt-i	
3100 IP-SM-GW-Number	OctetString	
3101 IP-SM-GW-Name	Diameter Identity	
3102 User-Identifier	Grouped	
3103 Service-ID	Enumerated	
3104 SCS-Identity	OctetString	
3105 Service-Parameters	Grouped	
3106 T4-Parameters	Grouped	29.336 [28]
3107 Service-Data	Grouped	
3108 T4-Data	Grouped	
3109 HSS-Cause	Unsigned32	
3110 SIR-Flags	Unsigned32	
3111 External-Identifier	UTF8String	
3112 IP-SM-GW-Realm	DiameterIdentity	
Note: The AVP codes from 3113 to 3199 are reserved for TS 29.336.		
3200 SM-Delivery-Outcome-T4	Enumerated	
3201 Absent-Subscriber-Diagnostic-T4	Enumerated	
3202 Trigger-Action	Unsigned32	29.337 [29]
3203 MTC-Error-Diagnostic	Unsigned32	
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.	Justineusz	
3300 SC-Address	OctetString	
3301 SM-RP-UI	OctetString	
3301 SM-RP-01 3302 TFR-Flags	Unsigned32	
	· ·	
3303 SM-Delivery- Failure-Cause	Grouped	
3304 SM-Enumerated-Delivery-Failure-Cause	Enumerated	
3305 SM-Diagnostic-Info	OctetString	
3306 SM-Delivery-Timer	Unsigned32	
3307 SM-Delivery-Start-Time	Time	
3308 SM-RP-MTI	Enumerated	
3309 SM-RP-SMEA	OctetString	
3310 SRR-Flags	Unsigned32	
3311 SM-Delivery-Not-Intended	Enumerated	
3312 MWD-Status	Unsigned32	
3313 MME-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3314 MSC-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	29.338 [30]
3315 SGSN-Absent-User-Subscriber-Diagnostic SM	Unsigned32	
3316 SM-Delivery-Outcome	Grouped	
3317 MME-SM-Delivery-Outcome	Grouped	
3318 MSC-SM-Delivery-Outcome	Grouped	
3319 SGSN-SM-Delivery-Outcome	Grouped	
3320 IP-SM-GW-SM-Delivery-Outcome	Grouped	
3321 SM-Delivery-Cause	Enumerated	
3322 Absent-User-Diagnostic-SM	Unsigned32	
3323 RDR-Flags	Unsigned32	
3324 SMSMI-Correlation-ID	Unsigned32	
3325 HSS-ID	UTF8String	
3326 Originating-SIP-URI	UTF8String	
3327 Destination-SIP-URI	UTF8String	
3328 OFR-Flags	Unsigned32	
Note: The AVP codes from 3329 to 3399 are reserved for TS 29.338.		
3400 Reserved	- LITEOOtrin n	
3401 Reason-Header	UTF8String	
3402 Instance-Id	UTF8String	
3403 Route-Header-Received	UTF8String	
3404 Route-Header-Transmitted	UTF8String	32.299 [5]
3405 SM-Device-Trigger-Information	Grouped	<u></u> [0]
3406 MTC-IWF-Address	Address	
3407 SM-Device-Trigger-Indicator	Enumerated	
3408 SM-Sequence-Number	Unsigned32	
3409 SMS-Result	Unsigned32	

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	VCS-Information	Grouped	
	Basic-Service-Code	Grouped	
	Bearer-Capability	OctetString	
	Teleservice ISUP-Location-Number	OctetString	
		OctetString	
	Forwarding-Pending ISUP-Release-Cause	Enumerated Unsigned32	
	MSC-Address		
		OctetString	
	Network-Call-Reference-Number	OctetString Time	
	Start-of-Charging VLR-Number		
		OctetString	
	CN-Operator-Selection-Entity	Enumerated	
	ISUP-Cause-Diagnostics	OctetString	
	ISUP-Cause-Location	Unsigned32	
	ISUP-Cause-Value	Unsigned32	
	EPDG-Address	Address	
	Announcing-UE-HPLMN-Identifier	UTF8String	
	Announcing-UE-VPLMN-Identifier	UTF8String	
	Coverage-Status	Enumerated	
	Layer-2-Group-ID	OctetString	
	Monitored-PLMN-Identifier	UTF8String	
	Monitoring-UE-HPLMN-Identifier	UTF8String	
	Monitoring-UE-Identifier	UTF8String	
	Monitoring-UE-VPLMN-Identifier	UTF8String	
	ProSe-PC3-Control-Protocol-Cause	Integer32	
	ProSe-PC3-EPC-Control-Protocol-Cause	Integer32	
	Requested-PLMN-Identifier	UTF8String	
	Requestor-PLMN-Identifier	UTF8String	
	Role-Of-ProSe-Function	Enumerated	
	Usage-Information-Report-Sequence-Number	Integer32	
	ProSe-3rd-Party-Application-ID	UTF8String	
	ProSe-Direct-Communication-Transmission-Data-Container	Grouped	
	ProSe-Direct-Discovery-Model	Enumerated	
	ProSe-Event-Type	Enumerated	
	ProSe-Function-IP-Address	Address	
	ProSe-Functionality	Enumerated	
	ProSe-Group-IP-Multicast-Addresses	Address	
	ProSe-Information	Grouped	
	ProSe-Range-Class	Enumerated	
	ProSe-Reason-For-Cancellation	Enumerated	
	ProSe-Request-Timestamp	Time	
	ProSe-Role-Of-UE	Enumerated	
	ProSe-Source-IP-Address	Address	
	ProSe-UE-ID	OctetString	
	Proximity-Alert-Indication	Enumerated	
	Proximity-Alert-Timestamp	Time	
	Proximity-Cancellation-Timestamp	Time	
	ProSe-Function-PLMN-Identifier	UTF8String	
3458	Application-Specific-Data	OctetString	
3459	Coverage-Info	Grouped	
	Location-Info	Grouped	
	ProSe-Direct-Communication-Reception-Data-Container	Grouped	
	Radio-Frequency	OctetString	
	Radio-Parameter-Set-Info	Grouped	
	Radio-Parameter-Set-Values	OctetString	
	Radio-Resources-Indicator	Integer32	
	Time-First-Reception	Time	
	Time-First-Transmission	Time	
	Transmitter-Info	Grouped	
	The AVP codes from 3469 to 3499 are reserved for TS 32.299.	2.28600	
	BMSC-Address	Address	
	BMSC-Port	Unsigned32	
	MBMS-Bearer-Event	Unsigned32	29.468 [31]
	MBMS-Bearer-Event-Notification	Grouped	20. 700 [01]
	MBMS-Bearer-Request	Grouped	
JJU4	impino podroi rroquosi	Jioupeu	

2505 MDMC Deerer Deepens	Crouped	
3505 MBMS-Bearer-Response	Grouped	
3506 MBMS-Bearer-Result 3507 MBMS-Start-Time	Unsigned32 Time	
	Unsigned32	
3508 Radio-Frequency 3509 TMGI-Allocation-Request	Grouped	
3510 TMGI-Allocation-Response	Grouped	
3511 TMGI-Allocation-Result	Unsigned32	
3512 TMGI-Allocation-Request	Grouped	
3513 TMGI-Deallocation-Response	Grouped	
3514 TMGI-Deallocation-Result	Unsigned32	
3515 TMGI-Dealiocation-Result	Grouped	
3516 TMGI-Expiry	Unsigned32	
3517 MB2U-Security	Unsigned32	
Note: The AVP codes from 3518 to 3599 are reserved for TS 29.468.	Offsigned32	
3601 Origin-App-Layer-User-Id	UTF8String	
3602 Target-App-Layer-User-Id	UTF8String	
3603 ProSe-Function-ID	OctetString	29.343 [32]
3604 ProSe-Request-Type	Unsigned32	
Note: The AVP codes from 3605 to 3699 are reserved for TS 29.343.	Offsigned32	
3701 ProSe-Subscription-Data	Grouped	
3701 ProSe-Subscription-Data 3702 ProSe-Permission	Unsigned32	
3703 ProSe-Allowed-PLMN	Grouped	
3704 ProSe-Direct-Allowed	Unsigned32	
3705 UPR-Flags	Unsigned32	29.344 [33]
3706 PNR-Flags	Unsigned32	
3700 ProSe-Initial-Location-Information	Grouped	
3708 Authorized-Discovery-Range	Unsigned32	
Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344.	enoignous2	
3800 Reserved		
3801 App-Layer-User-Id	UTF8String	
3802 Assistance-info	Grouped	
3803 Assistance-Info-Validity-Timer	Unsigned32	
3804 Discovery-Type	Unsigned32	
3805 Filter-Id	OctetString	
3806 MAC-Address	UTF8String	
3807 Match-Report	Grouped	
3808 Operating-Channel	Unsigned32	
3809 P2P-Features	Unsigned32	
3810 ProSe-App-Code	UTF8String	
3811 ProSe-App-Id	UTF8String	
3812 ProSe-App-Mask	UTF8String	
3813 ProSe-Discovery-Filter	Grouped	
3814 PRR-Flags	Unsigned32	
3815 ProSe-Validity-Timer	Unsigned32	
3816 Requesting-EPUID	UTF8String	
3817 Targeted-EPUID	UTF8String	
3818 Time-Window	Unsigned32	29.345 [34]
3819 WiFi-P2P-Assistance-Info	Grouped	
3820 WLAN-Assistance-Info	Grouped	
3821 WLAN-Link-Layer-Id	OctetString	
3822 WLAN-Link-Layer-Id-List	Grouped	
3823 Location-Update-Trigger	Grouped	
3824 Location-Update-Event-Type	Unsigned32	
3825 Change-Of-Area-Type	Grouped	
3826 Location-Update-Event-Trigger	Unsigned32	
3827 Report-Cardinality	Enumerated	
3828 Minimum-Interval-Time	Unsigned32	
3829 Periodic-Location-Type	Grouped	
3830 Location-Report-Interval-Time	Unsigned32	
3831 Total-Number-Of-Reports	Unsigned32	
3832 Validity-Time-Announce	Unsigned32	
3833 Validity-Time-Monitor	Unsigned32	
3834 Validity-Time-Communication	Unsigned32	
3835 ProSe-App-Code-Info	Grouped	
3836 MIC	OctetString	

3837	UTC-based-Counter	Unsigned32	
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	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]						
Note: The Experime	Note: The Experimental Result Codes from 2022 to 2040 are reserved for the TS 29.061							
		29.109 [7]						
Note: The Experime	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.							

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS	
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.	
4121	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]
Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061.	
	DIAMETER_PCC_BEARER_EVENT	
4142	DIAMETER_BEARER_EVENT	20 242 [40]
4143	DIAMETER_AN_GW_FAILED	29.212 [19]
4144	DIAMETER_PENDING_TRANSACTION	
Note: The Experime	ntal Result Codes from 4145 to 4160 are reserved for the TS 29.212	
		32.299 [5]
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.	
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	20 272 [24]
4182	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.	
4201	DIAMETER_ERROR_ABSENT_USER	29.173 [25]
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.	
4221	DIAMETER_ERROR_UNREACHABLE_USER	
4222	DIAMETER_ERROR_SUSPENDED_USER	
4223	DIAMETER_ERROR_DETACHED_USER	29.172 [24]
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]
4225	DIAMETER_ERROR_POSITIONING_FAILED	
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT	
	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.	
	DIAMETER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	29.219 [26]
Note: The Experime	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	20.220 [2]						
	5009 DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA							
5010	unassigned							
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED							
5012	DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUPP ORTED							
Note: The Even		2 20 220						
Note: The Expe	erimental Result Codes from 5013 to 5020 are reserved for the TS							
N . T . F		32.299 [5]						
	erimental Result Codes from 5021 to 5040 are reserved for the T	S 32.299.						
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION							
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER							
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC	29.234 [6]						
	RIPTION	20.20 ; [0]						
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION							
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK							
Note: The Expe	erimental Result Codes from 5046 to 5060 are reserved for the TS	S 29.234.						
5061	INVALID_SERVICE_INFORMATION							
5062	FILTER_RESTRICTIONS							
5063	REQUESTED SERVICE_NOT_AUTHORIZED							
5064	DUPLICATED_AF_SESSION	29.209 [8],						
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.211 [17] ,						
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	29.214 [18]						
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY							
5068	TEMPORARY_NETWORK_FAILURE							
Note: The Expe	erimental Result Codes from 5069 to 5080 are reserved for TS 29	0.209, TS 29.211						
	TS 29.214. DIAMETER ERROR USER DATA NOT RECOGNIZED							
5100								
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED							
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ							
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED							
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	29.329 [4]						
5105	DIAMETER_ERROR_TRANSPARENT_DATA	_0.0_0 [.]						
	OUT_OF_SYNC							
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT							
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA							
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE							
Note: The Expe	erimental Result Codes from 5109 to 5119 are reserved for the T	S 29.329.						
5120	DIAMETER_ERROR_START_INDICATION							
5121	DIAMETER_ERROR_STOP_INDICATION							
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]						
	E							
5123	DIAMETER_ERROR_SERVICE_AREA							
	erimental Result Codes from 5124 to 5139 are reserved for the T	S 29.061.						
5140	DIAMETER ERROR INITIAL PARAMETERS							
5141	DIAMETER_ERROR_TRIGGER_EVENT							
5142	DIAMETER_PCC_RULE_EVENT							
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED							
5144	DIAMETER ERROR TRAFFIC MAPPING INFO REJECTE							
3144	D	29.212 [19]						
5145	DIAMETER_QOS_RULE_EVENT							
5145								
5146	reserved							
E 1 17	DIAMETER ERROR CONFLICTING REQUEST							
5147	DIAMETER_ERROR_CONFLICTING_REQUEST							
5148	DIAMETER_ADC_RULE_EVENT	2 00 040						
5148		S 29.212. 29.109 [7						

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5402	DIAMETER_ERROR_NOT_AUTHORIZED	
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	
Note: The Exp	erimental Result Codes from 5404 to 5419 are reserved for the TS	3 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	
Note: The Exp	erimental Result Codes from 5424 to 5449 are reserved for the TS	S 29.272.
5450	DIAMETER ERROR USER NO NON 3GPP_SUBSCRIPTI	
	ON	00.070.001
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	29.273 [20]
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	
Note: The Exp	erimental Result Codes from 5453 to 5469 are reserved for the TS	S 29.273.
5470	DIAMETER_ERROR _SUBSESSION	
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME	29.215 [22]
	NT	
Note: The Exp	erimental Result Codes from 5472 to 5489 are reserved for the TS	3 29 215
5490	DIAMETER ERROR UNAUTHORIZED REQUESTING NET	
0.100	WORK	29.173 [25]
Note: The Evn	erimental Result Codes from 5491 to 5509 are reserved for the TS	3 29 173
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI	5 20.170.
3310	TY	29.336 [28]
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	29.000 [20]
	erimental Result Codes from 5512 to 5529 are reserved for the TS	2 20 226
	DIAMETER ERROR INVALID SME ADDRESS	23.330.
5530		
5531	DIAMETER_ERROR_SC_CONGESTION	
5532	DIAMETER_ERROR_SM_PROTOCOL	29.337 [29]
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5535	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING	
	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	
Note: The Exp	erimental Result Codes from 5559 to 5569 are reserved for the TS	S 29.338.
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
Note: The	Experimental Result Codes from 5571 to 5589 are reserved for the	
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	
5592	DIAMETER ERROR PFID UNKNOWN	
5593	DIAMETER ERROR APP REGISTER REJECT	29.343 [32]
5594	DIAMETER ERROR PROSE MAP REQUEST DISALLOWE	[]
	D THE TEXT ENGINEE TO THE TEXT ENGINEER TO THE TEXT ENGINEE	
5595	DIAMETER ERROR MAP REQUEST REJECT	
	erimental Result Codes from 5596 to 5609 are reserved for the TS	S 29.343.
5610	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION	
5611	DIAMETER_ERROR_ PROSE_NOT_ALLOWED	29.344 [33]
5612	DIAMETER_ERROR_ UE_LOCATION_UNKNOWN	20.077 [00]
	erimental Result Codes from 5613 to 5629 are reserved for the TS	3 29 344
5630	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT	, <u>, , , , , , , , , , , , , , , , , , </u>
3030	ER	
5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P	
3031	LMN	
5632	DIAMETER ERROR INVALID APPLICATION CODE	
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	20 245 [24]
5634	DIAMETER_ERROR_PROXIMITY_REJECTED	29.345 [34]
5635	DIAMETER_ERROR_PROXIMITY_REJECTED DIAMETER_ERROR_NO_PROXIMITY_REQUEST	
	DIAMETER_ERROR_NO_PROXIMITY_REQUEST DIAMETER ERROR_UNAUTHORIZED_SERVICE_IN_THIS_	
5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_ PLMN	
E627		
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

Data	TCC "	TCO De -	CC	D	Change history	Old	Name
Date	TSG #	TSG Doc.	CR	Kev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292	001		Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25	NP-040401		-	Correction of Charging application reference	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Removal of User Data Request Type AVP	6.0.0	6.1.0
2004-09	CN#25	NP-040412		1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26	NP-040579			Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12	CN#26	NP-040580		1	Reservation of command code 310	6.1.0	6.2.0
2004-12	CN#26	NP-040579		1	Addition of Gmb interface	6.1.0	6.2.0
2004-12	CN#26	NP-040600		2	Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047		1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039			Allocations for Gx interface	ļ	
		NP-050039			Allocations for Gmb interface	Ţ	
		NP-050039			Allocations for MMS, MM10 Interface		
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.3.0	6.4.0
		CP-050196		1	Addition of Maximum-Number-Accesses AVP		
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.4.0	6.5.0
		CP-050310			Addition of Pr reference point to TS 29.230	<u> </u>	
		CP-050310			Error code cleanup		
		CP-050310	0056		Addition of Rx ref. point and renaming of Experimental Result Codes		
2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-12	CT#30	CP-050624			Addition of GBA-Type AVP	7.0.0	7.1.0
	000	CP-050612			Additional Gmb AVP Allocation	1	
		CP-050612			Reservation of AVP codes for 32.299	1	
		CP-050625			Management of Sh subscriptions	1	
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	1,	7.2.0
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure	-	
2006-06	CT#32	CP-060302		<u> </u>	S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#32	CP-060417		3	New AVP Code	7.3.0	7.4.0
2000 03	01#33	CP-060417		0	Errors to be sent in response to Sh-Notif	7.5.0	7.4.0
		CP-060417			Definition of specific Diameter codes for DSAI	}	
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
2000-12	01#34	CP-060562		'	Addition of Diameter Error Code for Emergency Purposes	7.4.0	7.5.0
		CP-060555			Allocation of new AVP codes for Gmb	1	
		CP-060555			AVP code allocations for Rf and Ro interfaces	{	
		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
2007-03	C1#35	CP-070020				7.5.0	7.6.0
				-	Allocation of new AVP code for DSAI-Tag AVP	-	
2007.00	CT#26	CP-070020			Allocation of Experimental-Result-Code AVP for Gi Interface	7.6.0	7.7.0
2007-06	CT#36	CP-070318		 	Diameter application ID for the Rel-7 Rx interface	7.0.0	1.7.0
		CP-070312	0098	1	Experimental-Result-Codes for Gmb interface	1	
2007.00	OT#07	CP-070312		<u> </u>	Correction of Diameter AVP code allocation	77^	700
2007-09	CT#37	CP-070527		<u> </u>	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
			0105		Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol	<u>L</u>	
2007-12	CT#38	CP-070755	0101	4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
			0103		AVP code reservation for 32.299 in Rel-8		<u> </u>
2008-03	CT#39	CP-080015			Correction of reference to TS 29.140	8.0.0	8.1.0
		CP-080019	0111		AVP code reservation for TS 32.299 in Rel-8		
		CP-080019	0107		Wildcarded Public User Identities	1	
		CP-080191		1	Correction on AVP code allocation reservation for TS 32.299 in Rel-7		
		1		4	Correction on AVP code allocation reservation for TS 32.299	1	
		CP-080204	1()117				1
2008-06	CT#40	CP-080204		1		810	820
2008-06	CT#40	CP-080267	0117	1	A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-09	CT#41	CP-080267 CP-080456	0117 0119	1	A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal	8.1.0 8.2.0	8.2.0 8.3.0
		CP-080267	0117 0119 0121	1	A new Diameter Permanent Failure Code for Gx		+

2008-09	CT#41	CP-080463			Assignment) New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42	CP-080691			Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691	0128	1	Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044	0130	1	Update for ReadyForSM	8.4.0	8.5.0
2009-03	CT#43	CP-090044	0131	1	Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090026	0132		Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033		2	Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	AVP codes for S9 protocol	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	Location of Permanent Failure result code range for the S9 application	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0141		AVPs for TS 29.273	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299			Update of the AVP Codes	8.5.0	8.6.0
	0	CP-090299			AVP code reservation for TS 32.299	10.0.0	0.0.
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"	1	
		01 000200	0146		Removal of Requesting Node Type from AIR	┪	
		CP-090299			S6b Application ID	┪	
2000 00	CT#4E	CP-090299				0.6.0	0.7/
2009-09	CT#45			 	Allocation of Experimental-Result-Codes for S9 protocol AVP code allocation for TS 29.212	8.6.0	8.7.0
		CP-090530		-		4	
		CP-090531		 	Update of the AVP type for the User-Id	-	1
2000 00	OT# 4=	CP-090531		ļ	Trace Depth per session	070	0.7
2009-09	CT#45	CP-090557		ļ .	AVP code range for charging	8.7.0	9.0.
2009-12	CT#46	CP-090800	-	1	ICS-Flag	9.0.0	9.1.
		CP-091032			From GMLC-Address to GMLC-Number	4	
			0160		Session-Priority AVP		
			0163	2	Introduction of SLh application related AVPs and Experimental		
					Result codes		
			0166		Missing AVP error codes		
		CP-090797	0167	1	Introduction of SLg application related AVPs and Application		
	0=	05 (0000)			Identifier		
2010-03	CT#47	CP-100031			Wildcarded Public Identity	9.1.0	9.2.
		CP-100034	0168	1	Correction on AVP code allocation reservation for TS 32.299 in		
		05 100010			Rel-9		
		CP-100046		1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109		ļ
		CP-100046			Error codes in 29.172 for SLg		ļ
		CP-100048		1	AVPs in 29.272 for TADS support		
		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		ļ
		CP-100175	0182		Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
2010-06	CT#48	CP-100263		1	AVP Codes for PCC	9.2.0	9.3.
			0183		EPS state and location retrieval		ļ
		CP-100287			SGmb Application ID		ļ
		CP-100277			New APVs in S6a protocol		<u> </u>
2010-09	CT#49	CP-100463	0197	1	Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.
		00			interfaces	4	
		CP-100464			AVP Codes Allocation for PCC		
2010-09	CT#49	CP-100465			SIPTO Permission Indicator	9.4.0	10.0
		CP-100466			Location data including only serving node address	4	
		CP-100466		1	AVP for Update-Eff feature	15.5	
2010-12	CT#50	CP-100699			Enhanced SRVCC Subscriber Data	10.0.0	10.1
		CP-100687			Allocate codes for AVPs on eMPS	4	
		CP-100683			Allocate codes for AVPs on LIPA		ļ
		CP-100688			Periodic TAU/RAU timer in HSS subscription	1	
		CP-100846		1	S6a Error Diagnostic	15 .	1
2011-03	CT#51	CP-110051			PDP-Address correction	10.1.0	10.2
		CP-110054			Essential correction on the value type of the ELP Application AVPs	1	
		CP-110087			Minimization of Drive Tests (MDT)		1
		CP-110088			Relay Node Indicator AVPs		1
2011-06	CT#52	CP-110349			Handling of RTR for Emergency Registration	10.2.0	10.3
		CP-110347		1	Add AVPs from QSPEC cleanup		
	1	CP-110359			MIPv4 security parameters on the STa and S6b interfaces]
		CP-110380			MDT user consent		1
		CP-110370			AVP Code Allocation for Pre-paging		
	1	CP-110375			PUR-Flags AVP		
2011-09	CT#53	CP-110559	0236	1	AVP code alignment with 29.212	10.3.0	10.4
		CP-110555	0239	1	AVP code alignment with 32.299		
	1	CP-110554			AVP code alignment with 29.214		
		01-110004	0244		Experimental Result Code Alignment with 29.061		Į.

1		CP-110555	0252		Failure code and AVP code alignment with 29.212	7	1
		CP-110722		2	Priviledged sender	1	
2011-09	CT#53	CP-110584		1	Add vSRVCC updates to the Diameter AVP code table	10.4.0	11.0.0
		CP-110579 CP-110555			AVP code alignment with 32.299 AVP code reservation for 29.212	-	
2011-12	CT#54	CP-110333		1	SWx Restoration AVPs	11.0.0	11.1.0
	00.	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 CP-110781		1	Equivalent PLMN CSG Subscription Request Restoration of Wildcarded-IMPU AVP	-	}
2012-03	CT#55	CP-120025		1	Codes Allocation for AVPs on Initial Attach	11.1.0	11.2.0
		CP-120038			New AVP codes for Absolute Time of MBMS Data Transfer over SGmb		
		CP-120038			Allocating Diameter AVP codes for TS 29.219 and TS 29.212		
2012-06	CT#56	CP-120240			Codes Allocation for AVPs on NPLI	11.2.0	11.3.0
		CP-120238	0294	1	Adding new Diameter AVPs to Diameter table to support Trusted WLAN Access feature		
		CP-120225			Trust Relationship Indication		ĺ
		CP-120251			Corrections to reference titles		ļ
		CP-120251			Diameter Code Allocation for TS 29.219		ļ
		CP-120247 CP-120219			Network Name AVP codes Duplicated AVP names	-	ļ
2012-09	CT#57	CP-120481			PS additional number allocation	11.3.0	11.4.0
2012-00	011/01	CP-120473			SMS in MME/SGSN	1 1.5.5	11.7.0
		CP-120461			AAA Failure Recovery AVP codes		İ
		CP-120474			Transport Access Type AVP for BBAI		
		CP-120480			Local Time Zone		
		CP-120472	0308	-	Allocating Application Identifier and command code for Tsp		
		CP-120472	0300	_	interface Application Identifier, Command Codes and AVP range for S6m	-	}
		GF-120472	0309	_	interface		
		CP-120667	0312	1	GMLC-Name		İ
<u> </u>			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 CP-120731			Codes and Identifier Allocation for T4 Specification AVP Code Allocation for 29.336	-	
		CP-120731			Diameter AVP code value allocation in TS 29.368	-	
		CP-120732			Application Identifier, Command Codes and AVP codes for SGd,	1	
		CP-120716			S6c AVP name modification in TS 32.299		
		CP-120742			UE Time Zone AVP		
		CP-120741		1	Use of Flag instead of Enumerated AVPs	-	
		CP-120741 CP-120743		-	Use of Flag instead of Enumerated AVPs PSI direct routing with restoration procedures	-	
		CP-120743		-	EPS LocationInformation Support	_	1
2013-03	CT#59	CP-130026		1	Diameter error code for TS 29.219		
		CP-130026		-		11.5.0	11.6.0
2013-03	CT#59				MDT parameters	11.5.0	
	01#33	CP-130156	0337	1	MDT parameters New AVPs for Lgd interface	11.5.0	
2042.00		CP-130156 CP-130030	0337 0341	-	MDT parameters New AVPs for Lgd interface Validity Time of Short Message	11.6.0	12.0.0
2013-06	CT#60	CP-130156 CP-130030 CP-130288	0337 0341 0362	- 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP		12.0.0
2013-06		CP-130156 CP-130030 CP-130288 CP-130298	0337 0341 0362 0360	- 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219	11.6.0	12.0.0
2013-06		CP-130156 CP-130030 CP-130288	0337 0341 0362 0360 0358	- 1 - -	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP	11.6.0	12.0.0
2013-06		CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279 CP-130380	0337 0341 0362 0360 0358 0354 0363	- 1 - - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP	11.6.0	12.0.0
2013-06		CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279	0337 0341 0362 0360 0358 0354 0363	- 1 - - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP	11.6.0	12.0.0
2013-06		CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291	0337 0341 0362 0360 0358 0354 0363 0348	- 1 - - 1 -	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface	11.6.0	12.0.0
2013-06		CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291 CP-130297	0337 0341 0362 0360 0358 0354 0363 0348	- 1 - - 1 - 2	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier	11.6.0	12.0.0
2013-06		CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291 CP-130297 CP-130374	0337 0341 0362 0360 0358 0354 0363 0348 0347	- 1 - - 1 - 2	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh	11.6.0	12.0.0
2013-06		CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291 CP-130297	0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344	- 1 - - 1 - 2	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier	11.6.0	12.0.0
2013-06		CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130380 CP-130291 CP-130374 CP-130295 CP-130378 CP-130378	0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349	- 1 - - 1 - 2 1 1 - 1 - 2	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration	11.6.0	12.0.0
	CT#60	CP-130156 CP-130030 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291 CP-130374 CP-130295 CP-130378 CP-130454 CP-130461	0337 0341 0362 0360 0358 0354 0363 0347 0345 0344 0349 0364 0366	- 1 - - 1 - 2 1 1 - 1 - 1 - 2	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12	11.6.0	12.0.0
2013-09	CT#60	CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130380 CP-130291 CP-130374 CP-130295 CP-130378 CP-130378	0337 0341 0362 0360 0358 0354 0363 0347 0345 0344 0349 0364 0366	- 1 - - 1 - 2 1 1 - 1 - 1 - 2	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215	11.6.0	12.0.0 12.1.0
2013-09	CT#60	CP-130156 CP-130030 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291 CP-130374 CP-130295 CP-130378 CP-130454 CP-130461	0337 0341 0362 0360 0358 0354 0363 0347 0345 0344 0349 0364 0366	- 1 - - 1 - 2 1 1 - 1 - 1 - 2	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment-	11.6.0	12.0.0 12.1.0
2013-09	CT#60	CP-130156 CP-130030 CP-130288 CP-130292 CP-130279 CP-130380 CP-130291 CP-130297 CP-130374 CP-130295 CP-130454 CP-130460	0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0364 0366	- 1 - - 1 - 2 1 1 - 1 - 1 - 2	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected	11.6.0 12.0.0 12.1.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-09	CT#60	CP-130156 CP-130030 CP-130288 CP-130298 CP-130279 CP-130380 CP-130291 CP-130297 CP-130374 CP-130454 CP-130460 CP-130460	0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0366 0368	- 1 - - 1 - 2 1 1 1 - 1 2 - -	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN	11.6.0	12.0.0 12.1.0 12.2.0
2013-09	CT#60	CP-130156 CP-130030 CP-130288 CP-130292 CP-130279 CP-130380 CP-130291 CP-130297 CP-130374 CP-130295 CP-130454 CP-130460	0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0366 0368	- 1 - - 1 - 2 1 1 1 - 1 2 - -	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338	11.6.0 12.0.0 12.1.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-09	CT#60	CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130380 CP-130297 CP-130297 CP-130374 CP-130454 CP-130460 CP-130460 CP-130631 CP-130800 CP-130600	0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0366 0368 0368	- 1 - 1 - 2 1 1 1 - 1 2 - - - - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 32.299	11.6.0 12.0.0 12.1.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-09	CT#60	CP-130156 CP-130030 CP-130298 CP-130292 CP-130297 CP-130380 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130460 CP-130631 CP-130600 CP-130600	0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0364 0366 0368 0370 0371	- 1 - 1 - 2 1 1 1 - 1 2 - - - - 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 29.212	11.6.0 12.0.0 12.1.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-09	CT#60	CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130380 CP-130297 CP-130297 CP-130374 CP-130454 CP-130460 CP-130460 CP-130631 CP-130800 CP-130600	0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0366 0368 0369 0370 0371 0376 0378	- 1 1 - 2 1 1 1 2 1 - 1 1	MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 32.299	11.6.0 12.0.0 12.1.0 12.2.0 12.2.1	12.0.0 12.1.0 12.2.0 12.2.1 12.3.0

	1	CP-140023	0383	1	Definition of WLAN-related AVPs	1	Ī
2014-06	CT#64	CP-140211			Protocol enhancements to indicate support of device recall and replace by SMS-SC	12.4.0	12.5.0
•		CP-140251	0402	1	AVP allocation for Error handling, MTC error diagnostic	ĺ	ĺ
		CP-140257			SS-Status AVP Definition		Ì
		CP-140252	0392	-	Definition of AVPs for Network Location in TWLAN		Ì
		CP-140236	0399	-	TWAN-BSSID AVP re-naming	j]	Ì
	ĺ	CP-140247	0397	-	New AVPs for Trusted WLAN access		ĺ
	ĺ	CP-140231	0390	1	Adding Codes for 29.214	Ì	ĺ
2014-09	CT#65	CP-140515			T-GRUU restoration	12.5.0	12.6.0
	ĺ	CP-140517	0404	1	MB2-C codes		ĺ
	Ì	CP-140505	0405	1	New AVPs for Trusted WLAN access		Ì
	Ì	CP-140506	0406	1	P-CSCF Restoration indication		Ì
	Ì	CP-140516			Closing TS 29.234 and reused AVP in TS 29.273		ĺ
	Ì	CP-140513	0408	-	Identification of the HSS		ĺ
					Editorial: WLAN-offloadability AVP codes added as in CR C4-141648.		
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		0410	1	WLCP key for WLCP signalling protection	Ī	ĺ
	Ì		0411	-	Reset-ID		Ì
			0416	1	Code definitions for 32.299		
	ĺ		0428	-	Removal of I-WLAN AVPs	Ī	ĺ
			0429	1	Reference correction		
			0433	-	Code allocation for 29.212		
	ĺ		0418	-	MDT PLMN List	Ī	ĺ
	ĺ		0422	1	Codes Allocation for PC2 Protocol	Ī	ĺ
			0423	4	Codes Allocation for PC4a Protoco		
			0431	3	Allocation of values for Application ID, Command codes, AVP		
					codes and Experimental-Result codes used in the TS 29.345		
			0434	1	Command Code and Error Code for ProSe Initial Location		
					Information Retrieval		
			0425		Corrections of the type of some AVPs		ļ
			0426		OFR-Flags AVP code		ļ
			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
	1		0437		Location reporting in emergency 1xSRVCC		Į
			0435		AVP codes for GCSE MB2-C	Ţ	Į
			0442		New AVPs and range of transient failure result codes in TS 29.214		ļ
			0438	1	Allocation of code for Authorized-Discovery-Range AVP (TS 29.344)		
]		0440	2	Location Update Trigger		
			0441		AVP codes allocation for Validity related AVPs for TS 29.345		[
			0443	-	Allocation of codes for the Integrity Checks. Aspect AVPs		
2015-06	CT#68	CP-150257	0448	1	AVP code allocation for Match Refresh Timer AVP in TS 29.345	12.8.0	12.9.0
		CP-150248	0453	1	IP-SM-GW-Realm		
		CP-150245	0456		Wrong CR implementation of CR 0416r1		
	1	CP-150249	0458	1	AVP code allocation for 32.299		

History

	Document history						
V12.6.0	October 2014	Publication					
V12.7.0	January 2015	Publication					
V12.8.0	April 2015	Publication					
V12.9.0	July 2015	Publication					