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1 Scope

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

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

2 References

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

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

Diameter protocol; Stage 3".

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

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

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

3 Definitions and abbreviations

3.1 Definitions

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

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

3.2 Abbreviations

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

AVP Attribute-Value-Pair CR Change Request

IANA Internet Assigned Numbers Authority

IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

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

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

4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

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

5 Command codes

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

5.1 Command codes allocated for 3GPP

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

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

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

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
8388620	Provide-Location-Request/Answer	PLR/PLA	00 470 [04]
8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]
8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]
8388635	Spending-Limit-Request/Answer	SLR/SLA	
8388636	Spending-Status-Notification-	SNR/SNA	29.219 [26]
	Request/Answer		
8388637	TDF-Session-Request/Answer	TSR/TSA	29.212 [19]
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]
8388639	Device-Action-Request/Answer	DAR/DAA	00 000 [07]
8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]
8388643	Device-Trigger-Request/Answer	DTR/DTA	20 227 [20]
8388644	Delivery-Report-Request/Answer	DRR/DRA	29.337 [29]
8388645	MO-Forward-Short-Message Request/Answer	OFR/OFA	
8388646	MT-Forward-Short-Message Request/Answer	TFR/TFA	
8388647	Send-Routing-Info-for-SM- Request/Answer	SRR/SRA	29.338 [30]
8388648	Alert-Service-Centre-Request/Answer	ALR/ALA	
8388649	Report-SM-Delivery-Status- Request/Answer	RDR/RDA	
8388656	Trigger-Establishment-Request/Answer	TER/TEA	29.215 [30]
8388662	GCS-Action-Request/Answer	GAR/GAA	
8388663	GCS-Notification-Request/Answer	GNR/GNA	29.468 [31]
8388664	ProSe-Subscriber-Information- Request/Answer	PIR/PIA	
8388665	Update-ProSe-Subscriber-Data- Request/Answer	UPR/UPA	29.344 [33]
8388666	ProSe-Notify-Request/Answer	PNR/PNA	
8388713	ProSe-Initial-Location-Information- Request/Answer	PSR/PSA	
8388668	ProSe-Authorization-Request/Answer	PAR/PAA	
8388669	ProSe-Discovery-Request/Answer	PDR/PDA	
8388670	ProSe-Match-Request/Answer	PMR/PMA	
8388671	ProSe-Match-Report-Info- Request/Answer	PIR/PIA	29.345 [34]
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	
8388674	ProSe-Alert-Request/Answer	ALR/ALA	
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	
8388676	ProXimity-Action-Request/Answer	PXR/PXA	29.343 [32]

6 Vendor identifier

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

6.1 3GPP"s vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
102	3GPP-WLAN-QoS-Filter-Support	OctetString	
Note:	The AVP codes from 1 to 255 are reserved for backwards compatibilit	y with 3GPP RADIUS Ve	ndor Specific
Attribu	utes (See TS 29.061 [13] and TS 29.234 [6])	-	•
Note:	The AVP codes from 256 to 299 are reserved for future use.		
300	Authentication-Method	Enumerated	
	Authentication-Information-SIM	OctetString	
302	Authorization -Information-SIM	OctetString	
303	WLAN-User-Data	Grouped	
	Charging-Data	Grouped	
	WLAN-Access	Enumerated	
	WLAN- 3GPP-IP-Access	Enumerated	
	APN-Authorized	Grouped	
308	APN-Id		
	APN-Barring-Type	Enumerated	29.234 [6]
	WLAN-Direct-IP-Access	Enumerated	23.254 [0]
	Session-Request-Type	Enumerated	
	Routing-Policy	IPFilterRule	
	Max-Requested-Bandwidth	OctetString	
314	Charging-Characteristics	Integer	
	Charging-Nodes	Grouped	
316	Primary-OCS-Charging-Function-Name	DiameterIdentity	
317	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
318	3GPP-AAA-Server-Name	DiameterIdentity	
319	Maximum-Number-Accesses	Unsigned32	
Note '	1: The AVP codes from 320 to 399 are reserved for TS 29.234		
	2: The 3GPP-AAA-Server-Name definition is moved to TS 29.273 star	ting from Rel-12.	
	GBA-UserSecSettings	OctetString	
	Transaction-Identifier NAF-Hostname	OctetString OctetString	
	GAA-Service-Identifier	OctetString	-
	Key-ExpiryTime	Time	-
405	ME-Key-Material	OctetString	
406	UICC-Key-Material	OctetString	
407	GBA_U-Awareness-Indicator	Enumerated	
	BootstrapInfoCreationTime	Time	
409	GUSS-Timestamp GBA-Type	Time Enumerated	29.109 [7]
	UE-Id	OctetString	29.109[7]
	UE-Id-Type	Enumerated	-
413	UICC-App-Label	OctetString	
	UICC-MÉ	Enumerated	
415	Requested-Key-Lifetime	Time	
	Private-Identity-Request	Enumerated	
	GBA-Push-Info NAF-SA-Identifier	OctetString OctetString	
410	Security-Feature-Request	OctetString	
	Security-Feature-Response	OctetString	-
	The AVP codes from 421 to 499 are reserved for TS 29.109		
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	1
	Access-Network-Charging-Identifier	Grouped	
	Access-Network-Charging-Identifier-Value	OctetString	29.209 [8],
	AF-Application-Identifier	OctetString	29.211 [17] ,
	AF-Charging-Identifier	OctetString	29.214 [18]
	Authorization-Token	OctetString	1
	Flow-Description	IPFilterRule	1
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		<u>, </u>	
	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 Codec-Data	OctetString	
	Service-URN	OctetString	
	Acceptable-Service-Info	Grouped	
	Service-Info-Status	Enumerated	
	MPS-Identifier	OctetString	
	AF-Signalling-Protocol	Enumerated	
	Sponsored-Connectivity-Data	Grouped	
	Sponsor-Identity	OctetString	
	Application-Service-Provider-Identity	OctetString	
	Rx-Request-Type	Enumerated	
	Min-Requested-Bandwidth-DL	Unsigned32	
	Min-Requested-Bandwidth-UL	Unsigned32	
	Required-Access-Info	Enumerated	
	IP-Domain-Id	OctetString	
	The AVP codes from 538 to 599 are reserved for TS 29.209, TS 29.2		
	Visited-Network-Identifier	OctetString	
	Public-Identity 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	
	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	
(a.)(1	Feature-List	Unsigned32	
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631	Supported-Applications	Grouped	
631 632			

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	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
	SCSCF-Restoration-Info	Grouped	
	Path	OctetString	
	Contact	OctetString	
	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	
	Record-Route	OctetString	
	Associated-Registered-Identities	Grouped	
	Multiple-Registration-Indication	Enumerated	
	Restoration-Info	Grouped	
	Session-Priority	Enumerated	
	Identity-with-Emergency-Registration	Grouped	
	Priviledged-Sender-Indication	Enumerated	
	LIA-Flags	Unsigned32	
	Initial-CSeq-Sequence-Number	Unsigned32	
	SAR-Flags	Unsigned32	
	The AVP codes from 656 to 699 are reserved for TS 29.229.		
	User-Identity	Grouped	
	MSISDN	OctetString	
	User-Data	OctetString	
	Data-Reference	Enumerated	
	Service-Indication	OctetString	
	Subs-Req-Type	Enumerated	
	Requested-Domain	Enumerated	
	Current-Location	Enumerated	
	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	00
	DSAI-Tag	OctetString	29.329 [4]
	One-Time-Notification	Enumerated	
	Requested-Nodes	Unsigned32	
	Serving-Node-Indication	Enumerated	
	Repository-Data-ID	Grouped	
	Sequence-Number	Unsigned32	
/17	Pre-paging-Supported	Enumerated	
	Local-Time-Zone-Indication	Enumerated	
	UDR-Flags	Unsigned32	
	Call-Reference-Info	Grouped	
	Call-Reference-Number	OctetString	
	AS-Number	OctetString	
	The AVP codes from 723 to 799 are reserved for TS 29.329.		
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
	Event-Type	Grouped	
	SIP-Method	UTF8String	
	Event	UTF8String	
	Content-Type	UTF8String	
	Content-Length	Unsigned32	
	Content-Disposition	UTF8String	
	Role-of-Node	Enumerated	
	User-Session-Id	UTF8String	20 000 [5]
	Calling-Party-Address	UTF8String	32.299 [5]
832	Called-Party-Address	UTF8String	
000		(-rouned	
	Time-Stamps	Grouped	
834	SIP-Request-Timestamp	Time	
834 835	SIP-Request-Timestamp SIP-Response-Timestamp	Time Time	
834 835 836	SIP-Request-Timestamp SIP-Response-Timestamp Application-Server	Time Time UTF8String	
834 835 836 837	SIP-Request-Timestamp SIP-Response-Timestamp Application-Server Application-provided-called-party-address	Time Time UTF8String UTF8String	
834 835 836 837 838	SIP-Request-Timestamp SIP-Response-Timestamp Application-Server	Time Time UTF8String	

0:-	T 1 1 10 10 1	LITEOCC	
	Terminating-IOI	UTF8String	
	IMS-Charging-Identifier	UTF8String	
	SDP-Session-Description	UTF8String	
	SDP-Media-Component SDP-Media-Name	Grouped UTF8String	
	SDP-Media-Name SDP-Media-Description	UTF8String	
	CG-Address	Address	
	GGSN-Address	Address	
		Address	
	Served-Party-IP-Address Authorized-QoS	UTF8String	
	Authorized-QoS 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	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	
880	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	-	
	Reserved Address Data	I ITEOCH	
	Address-Data	UTF8String	
	Address-Domain	Grouped	
899	Address-Type	Enumerated	
000	TMO	Ooto ot Ctrica	
	TMGI Populard MPMS Poorer Canabilities	OctectString	
	Required-MBMS-Bearer-Capabilities MBMS StartStop Indication	UTF8String	29.061 [13]
	MBMS-StartStop-Indication	Enumerated OctootString	
903	MBMS-Service-Area	OctectString	

904 MBMS-Session-Duration	Unsigned32	
905 Alternative-APN	UTF8String	
906 MBMS-Service-Type	Enumerated	
907 MBMS-2G-3G-Indicator	Enumerated	
908 MBMS-Session-Identity	OctetString	
909 RAI	UTF8String	
910 Additional-MBMS-Trace-Info	OctetString	
911 MBMS-Time-To-Data-Transfer	Unsigned32	
912 MBMS-Session-Identity-Repetition-Number	Unsigned32	
913 MBMS-Required-QoS	UTF8String	
914 MBMS-Counting-Information	Enumerated	
915 MBMS-User-Data-Mode-Indication	Enumerated	
916 MBMS-GGSN-Address	UTF8String	
917 MBMS-GGSN-IPv6-Address	UTF8String	
918 MBMS-BMSC-SSM-IP-Address	UTF8String	
919 MBMS-BMSC-SSM-IPv6-Address	UTF8String	
920 MBMS-Flow-Identifier	OctetString	
921 CN-IP-Multicast-Distribution		
	Enumerated	
922 MBMS-HC-Indicator	Enumerated	
923 MBMS-Access-Indicator	Enumerated	
924 MBMS-GW-SSM-IP-Address	OctetString	
925 MBMS-GW-SSM-IPv6-Address	OctetString	
926 MBMS-BMSC-SSM-UDP-Port	OctetString	
927 MBMS-GW-UDP-Port	OctetString	
928 MBMS-GW-UDP-Port-Indicator	Enumerated	
929 MBMS-Data-Transfer-Start	Unsigned64	
930 MBMS-Data-Transfer-Stop	Unsigned64	
931 MBMS-Flags	Unsigned32	
932 Restart-Counter	Unsigned32	
933 Diagnostic-Info	Unsigned32	
Note: The AVP codes from 934 to 999 are reserved for TS 29.061		
1000 Bearer-Usage	Enumerated	
1001 Charging-Rule-Install	Grouped	
1002 Charging-Rule-Remove	Grouped	
1003 Charging-Rule-Definition	Grouped	
1004 Charging-Rule-Base-Name	UTF8String	
1005 Charging-Rule-Name	OctetString	
1006 Event-Trigger	Enumerated	
1007 Metering-Method	Enumerated	
1008 Offline	Enumerated	
1009 Online	Enumerated	
1010 Precedence	Unsigned32	
1011 Reporting-Level	Enumerated	
1012 TFT-Filter	IPFilterRule	
1013 TFT-Packet-Filter-Information	Grouped	
1014 ToS-Traffic-Class	OctetString	
1016 QoS-Information	Grouped	
1018 Charging-Rule-Report	Grouped	00.010.00
1019 PCC-Rule-Status	Enumerated	29.212 [19]
1020 Bearer-Identifier	OctetString	
1020 Bearer-Identifier 1021 Bearer-Operation	Enumerated	
1022 Access-Network-Charging-Identifier-Gx	Grouped	
1023 Bearer-Control-Mode	Enumerated	
1024 Network-Request-Support	Enumerated	
1025 Guaranteed-Bitrate-DL	Unsigned32	
1026 Guaranteed-Bitrate-UL	Unsigned32	
1027 IP-CAN-Type	Enumerated	
1028 QoS-Class-Identifier	Enumerated	
1029 QoS-Negotiation	Enumerated	
1030 QoS-Upgrade	Enumerated	
1031 Rule-Failure-Code	Enumerated	
1032 RAT-Type	Enumerated	
1032 RAT-Type 1033 Event-Report-Indication		
	Grouped	
1034 Allocation-Retention-Priority	Grouped	
1035 CoA-IP-Address	Address	

	Tunnel-Header-Filter	IPFilterRule	
	Tunnel-Header-Length	Unsigned32	
	Tunnel-Information	Grouped	
	CoA-Information	Grouped	
	APN-Aggregate-Max-Bitrate-DL	Unsigned32	
	APN-Aggregate-Max-Bitrate-UL	Unsigned32	
	Revalidation-Time	Time	
	Rule-Activation-Time	Time	
	Rule-DeActivation-Time	Time	
	Session-Release-Cause	Enumerated	
	Priority-Level	Unsigned32	
	Pre-emption-Capability	Enumerated	
	Pre-emption-Vulnerability	Enumerated	
	Default-EPS-Bearer-QoS	Grouped	
	AN-GW-Address	Address	
1051	QoS-Rule-Install	Grouped	
1052	QoS-Rule-Remove	Grouped	
1053	QoS-Rule-Definition	Grouped	
1054	QoS-Rule-Name	OctetString	
1055	QoS-Rule-Report	Grouped	
1056	Security-Parameter-Index	OctetString	
1057	Flow-Label	OctetString	
1058	Flow-Information	Grouped	
	Packet-Filter-Content	IPFilterRule	
	Packet-Filter-Identifier	OctetString	
	Packet-Filter-Information	Grouped	
	Packet-Filter-Operation	Enumerated	
	Resource-Allocation-Notification	Enumerated	
	Session-Linking-Indicator	Enumerated	
	PDN-Connection-ID	OctetString	
	Monitoring-Key	OctetString	
	Usage-Monitoring-Information	Grouped	
	Usage-Monitoring-Level	Enumerated	
	Usage-Monitoring-Report	Enumerated	
	Usage-Monitoring-Support	Enumerated	
	CSG-Information-Reporting	Enumerated	
	Packet-Filter-Usage	Enumerated	
	Charging-Correlation-Indicator	Enumerated	
	QoS-Rule-Base-Name	UTF8String	
	Routing-Rule-Remove	Grouped	
	Routing-Rule-Definition	Grouped	
	Routing-Rule-Identifier	OctetString	
	Routing-Filter	Grouped	
	Routing-IP-Address	Address	
	Flow-Direction	Enumerated	
	Routing-Rule-Install	Grouped	
	Redirect-Information	Grouped	
	Redirect- Support	Enumerated	
	TDF-Information	Grouped	
	TDF-Application-Identifier	OctetString	
	TDF-Destination-Host	DiameterIdentity	
	TDF-Destination-Realm	DiameterIdentity	
1091	TDF-IP-address	Address	
	ADC-Rule-Install	Grouped	
1093	ADC-Rule-Remove	Grouped	
	ADC-Rule-Definition	Grouped	
1095	ADC-Rule-Base-Name	UTF8String	
	ADC-Rule-Name	OctetString	
	ADC-Rule-Report	Grouped	
	Application-Detection-Information	Grouped	
	PS-to-CS-Session-Continuity	Enumerated	
	The AVP codes from 1082 to 1084 are reserved for TS 29.212		
	Served-User-Identity	Groupe	
	VASP-ID	UTF8Str	29.140 [16
	VAS-ID	UTF8String	20.1 4 0 [10
	V//O ID	o ir ooning	

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	5 11 5 5 m.i.g	
1200 Domain-Name	UTF8String	
1201 Recipient-Address	Grouped	
1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1204 Type-Number 1205 Additional-Type-Information	UTF8String	
1205 Additional-Type-Information 1206 Content-Size	Unsigned32	
1206 Content-Size 1207 Additional-Content-Information	Grouped	
1207 Additional-Content-Information 1208 Addressee-Type	Grouped 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	32.299 [3]
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	
1239 LCS-Requestor-Id 1240 LCS-Requestor-Id-String	UTF8String	
	· ·	
1241 LCS-Client-Type	Enumerated	
1242 Location-Estimate	OctetString	
1243 Location-Estimate-Type	Enumerated	
1244 Location-Type	Grouped	
1245 Positioning-Data	UTF8String	
1246 Reserved	-	
1247 PDP-Context-Type	Enumerated	

1248 MMBox-Storage-Requested	Enumerated	
1249 Service-Specific-Info	Grouped	
1250 Called-Asserted-Identity	UTF8String	
1251 Requested-Party-Address	UTF8String	
1252 PoC-User-Role	Grouped	
1253 PoC-User-Role-IDs	UTF8String	
1254 PoC-User-Role-info-Units	Enumerated	
1255 Talk-Burst-Exchange	Grouped	
1256 Service-Generic-Information	Grouped	
1257 Service-Specific-Type	Unsigned32	
1258 Event-Charging-TimeStamp	Time	
1259 Participant-Access-Priority	Enumerated	
1260 Participant-Group	Grouped	
1261 PoC-Change-Conditions	Enumerated	
1262 PoC-Change-Time	Time	
1263 Access-Network-Information	OctetString	
1264 Trigger	Grouped	
1265 Base-Time-Interval	Unsigned32	
1266 Envelope	Grouped	
1267 Envelope-End-Time	Time	
1268 Envelope-Reporting	Enumerated	
1269 Envelope-Reporting	Time	
1270 Time-Quota-Mechanism	Grouped	
1271 Time-Quota-Nechanism	Enumerated	
1271 Filline-Quota-Type 1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps	Grouped	
1274 SDP-TimeStamp	Time	
1274 SDP-Oner-Timestamp	Time	
1276 AF-Correlation-Information		
	Grouped	
1277 PoC-Session-Initiation-type	Enumerated	
1278 Offline-Charging	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
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	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped	
1410 Number-Of-Requested-Vectors	Unsigned32	
1411 Re-Synchronization-Info	OctetString	29.272 [21]
1412 Immediate-Response-Preferred	Unsigned32	,_,_
1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	
1417 Network-Access-Mode	Enumerated	
1418 HPLMN-ODB	Enumerated	
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags 1422 DSA-Flags	Unsigned32 Unsigned32	

423 Context-Identifier	Unsigned32
424 Subscriber-Status	Enumerated
1425 Operator-Determined-Barring	Unsigned32
426 Access-Restriction-Data	UTF8String
427 APN-OI-Replacement	UTF8String
1428 All-APN-Configurations-Included-Indicator	Enumerated
APN-Configuration-Profile	Grouped
APN-Configuration	Grouped
431 EPS-Subscribed-QoS-Profile	Grouped
432 VPLMN-Dynamic-Address-Allowed	Enumerated
433 STN-SR	OctetString
434 Alert-Reason	Enumerated
435 AMBR	Grouped
436 CSG-Subscription-Data	Grouped
437 CSG-ld	Unsigned32
438 PDN-GW-Allocation-Type	Enumerated
439 Expiration-Date	Time
440 RAT-Frequency-Selection-Priority-ID	Unsigned32
441 IDA-Flags	Unsigned32
442 PUA-Flags	Unsigned32
443 NOR-Flags	Unsigned32
444 User-Id	UTF8String
445 Equipment-Status	Enumerated
446 Regional-Subscription-Zone-Code	OctetString
447 RAND	OctetString
448 XRES	OctetString
449 AUTN	OctetString
450 KASME	OctetString
451 Reserved	-
452 Trace-Collection-Entity	Address
453 Kc	OctetString
454 SRES	OctetString
455 Reserved	-
456 PDN-Type	Enumerated
457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated
458 Trace-Data	Grouped
459 Trace-Reference	OctetString
460 Reserved	- OctetString
460 Reserved	<u> </u>
462 Trace-Depth	Enumerated
463 Trace-NE-Type-List	Enumerated OctetString
465 Trace-Interface-List	OctetString
465 Trace-Event-List	OctetString
466 OMC-Id	OctetString
469 Complete Data List Included Indicator	Grouped
468 Complete-Data-List-Included-Indicator	Enumerated
469 PDP-Context	Grouped
470 PDP-Type	OctetString
471 3GPP2-MEID	OctetString
472 Specific-APN-Info	Grouped
473 LCS-Info	Grouped
474 GMLC-Number	OctetString
475 LCS-PrivacyException	Grouped
476 SS-Code	OctetString
477 SS-Status	OctetString
478 Notification-To-UE-User	Enumerated
	Grouped
480 Client-Identity	Grouped OctetString
1479 External-Client 1480 Client-Identity 1481 GMLC-Restriction	Grouped
480 Client-Identity 481 GMLC-Restriction 482 PLMN-Client	Grouped OctetString Enumerated Enumerated
480 Client-Identity 481 GMLC-Restriction 482 PLMN-Client 483 Service-Type	Grouped OctetString Enumerated Enumerated Grouped
480 Client-Identity 481 GMLC-Restriction 482 PLMN-Client	Grouped OctetString Enumerated Enumerated
480 Client-Identity 481 GMLC-Restriction 482 PLMN-Client 483 Service-Type 484 ServiceTypeIdentity	Grouped OctetString Enumerated Enumerated Grouped
480 Client-Identity 481 GMLC-Restriction 482 PLMN-Client 483 Service-Type	Grouped OctetString Enumerated Enumerated Grouped Unsigned32

		T
1488 Call-Barring-Info	Grouped	
1489 SGSN-Number	OctetString	
1490 IDR-Flags	Unsigned32	
1491 ICS-Indicator	Enumerated	
1492 IMS-Voice-Over-PS-Sessions-Supported	Enumerated	
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated	
1494 Last-UE-Activity-Time	Time	
1495 EPS-User-State	Grouped	
		-
1496 EPS-Location-Information	Grouped	
1497 MME-User-State	Grouped	
1498 SGSN-User-State	Grouped	
1499 User-State	Enumerated	
·		
1500 Non-3GPP-User-Data	Grouped	
1501 Non-3GPP-IP-Access	Enumerated	1
1502 Non-3GPP-IP-Access-APN	Enumerated	-
		-
1503 AN-Trusted	Enumerated	<u> </u>
1504 ANID	UTF8String	
1505 Trace-Info	Grouped	
1506 MIP-FA-RK	OctetString	
1507 MIP-FA-RK-SPI	Unsigned32	
1508 PPR-Flags	Unsigned32	1
1509 WLAN-Identifier	Grouped	1
1510 TWAN-Access-Info	Grouped	†
		1
1511 Access-Authorization-Flags	Unsigned32	-
1512 TWAN-Default-APN-Context-Id	Unsigned32	<u> </u>
1513 Reserved	-	
1514 Reserved	-	
1515 Reserved	-	
1516 Full-Network-Name	OctetString	
1517 Short-Network-Name	OctetString	
1518 AAA-Failure-Indication	Unsigned32	29.273 [20]
1519 Transport-Access-Type	Enumerated	29.273 [20]
		-
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	
	Unsigned32	-
1529 Connectivity-Flags		-
1530 TWAN-PCO	OctetString	-
1531 TWAG-CP-Address	Address	
1532 TWAG-UP-Address	UTF8String	
1533 TWAN-S2a-Failure-Cause	Unsigned32	
1534 SM-Back-Off-Timer	Unsigned32	
1535 WLCP-Key	OctetString]
318 3GPP-AAA-Server-Name	DiameterIdentity	1
Note 1: The AVP codes from 1536 to 1599 are reserved for TS 29.273		I
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP	TS 29 234 and is now dof	ined in 3GPP TS
29.273 from Rel-12.	10 20.20 and is now der	
1600 MME-Location-Information	Crounce	
	Grouped	-
1601 SGSN-Location-Information	Grouped	-
1602 E-UTRAN-Cell-Global-Identity	OctetString	
1603 Tracking-Area-Identity]
	OctetString	
1604 Cell-Global-Identity	OctetString OctetString	
1604 Cell-Global-Identity	OctetString	00 070 10.11
1604 Cell-Global-Identity 1605 Routing-Area-Identity	OctetString OctetString	29.272 [21]
1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity	OctetString OctetString OctetString	29.272 [21]
1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity	OctetString OctetString OctetString OctetString	29.272 [21]
1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information	OctetString OctetString OctetString OctetString OctetString	29.272 [21]
1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information	OctetString OctetString OctetString OctetString OctetString OctetString OctetString	29.272 [21]
1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information 1610 Current-Location-Retrieved	OctetString OctetString OctetString OctetString OctetString OctetString Enumerated	29.272 [21]
1604 Cell-Global-Identity 1605 Routing-Area-Identity 1606 Location-Area-Identity 1607 Service-Area-Identity 1608 Geographical-Information 1609 Geodetic-Information	OctetString OctetString OctetString OctetString OctetString OctetString OctetString	29.272 [21]

1612	Active-APN	Crouped	
	SIPTO-Permission	Grouped Enumerated	
	Error-Diagnostic	Enumerated	
	UE-SRVCC-Capability	Enumerated	
	MPS-Priority	Unsigned32	
	VPLMN-LIPA-Allowed		
	LIPA-Permission	Enumerated Enumerated	
	Subscribed-Periodic-RAU-TAU-Timer		
		Unsigned32	
	Ext-PDP-Type	OctetString	
	Ext-PDP-Address	Address	
	MDT-Configuration	Grouped	
	Job-Type	Enumerated	
	Area-Scope	Grouped	
	List-Of-Measurements	Unsigned32	
	Reporting-Trigger	Unsigned32	
	Report-Interval	Enumerated	
	Report-Amount	Enumerated	
	Event-ThresholdRSRP	Unsigned32	
	Event-ThresholdRSRQ	Unsigned32	
	Logging-Interval	Enumerated	
	Logging-Duration	Enumerated	
1633	Relay-Node-Indicator	Enumerated	
	MDT-User-Consent	Enumerated	
	PUR-Flags	Unsigned32	
	Subscribed-VSRVCC	Enumerated	
1637	Equivalent-PLMN-List	Grouped	
1638	CLR-Flags	Unsigned32	
	UVR-Flags	Unsigned32	
1640	UVA-Flags	Unsigned32	
	VPLMN-CSG-Subscription-Data	Grouped	
	Time-Zone	UTF8String	
	A-MSISDN	OctetString	
	Reserved	-	
	MME-Number-for-MT-SMS	OctetString	
	Reserved	-	
	Reserved	_	
	SMS-Register-Request	Enumerated	
	Local-Time-Zone	Grouped	
	Daylight-Saving-Time	Enumerated	
	GMLC-Info	Grouped	
	GMLC-Name	DiameterIdentity	
	GMLC-Realm	DiameterIdentity	
	Subscription-Data-Flags	Unsigned32	
	Measurement-Period-LTE	Enumerated	
	Measurement-Period-LTE Measurement-Period-UMTS	Enumerated	
	Collection-Period-RRM-LTE	<u> </u>	
		Enumerated	
	Collection-Period-RRM-UMTS	Enumerated	
	Positioning-Method Measurement Overtity	OctetString	
	Measurement-Quantity	OctetString	
	Event-Threshold-Event-1F	Integer32	
	Event-Threshold-Event-1I	Integer32	
	Restoration-Priority	Unsigned32	
	SGs-MME-Identity	UTF8String	
	SIPTO-Local-Network-Permission	Unsigned32	
	Coupled-Node-Diameter-ID	DiameterIdentity	
	WLAN-offloadability	Grouped	
	WLAN-offloadability-EUTRAN	Unsigned32	
	WLAN-offloadability-UTRAN	Unsigned32	
	Reset-ID	OctetString	
	MDT-Allowed-PLMN-Id	OctetString	
	The AVP codes from 1672 to 1699 are reserved for TS 29.272.		
	SMS-Information	Grouped	
2000			
	Data-Coding-Scheme	Integer32	22 200 [6]
2001	Data-Coding-Scheme Destination-Interface	Integer32 Grouped	32.299 [5]

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	
2040 Service-Data-Container	Integer32 Grouped
2041 Start-Time 2042 Stop-Time	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
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N . T. AVD		
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	-	00 000 [=]
2109 reserved	-	32.299 [5]
2110 IM-Information	Grouped	
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112 Number-Of-Messages-Successfully-Sent	Unsigned32	
2113 Total-Number-Of-Messages-Exploded	Unsigned32	
2114 Total-Number-Of-Messages-Sent	Unsigned32	
2115 DCD-Information	Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String	
2118 Charge-Reason-Code	Enumerated	
Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299.	-	
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
2202 Subsession-Id	Unsigned32	
2203 Subsession-Operation	Enumerated	
2204 Multiple-BBERF-Action	Enumerated	29.215 [22]
2205 UE-Local-IPv6-Prefix	OctetString	
2206 DRA-Deployment	Enumerated	
2207 PCRF-Address	DiameterIdentity	
2208 DRA-Binding	Enumerated	
Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215.		
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	02.200 [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		
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.		
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	
040414 00 0-11-1-1161-1-10-4-1	Llucai aus a dOO	29.173 [25]
2404 LCS-Capabilities-Sets	Unsigned32	200 [20]
2405 GMLC-Address	Address	20.110 [20]
2405 GMLC-Address 2406 Additional-Serving-Node	Address Grouped	201170 [20]
2405 GMLC-Address	Address	20.110 [20]
2405 GMLC-Address 2406 Additional-Serving-Node	Address Grouped	2370 (20)

2405 SGSN-Name Diameter/dentity Diameter/dentity Diameter/dentity 2411 RIA-Flags Unsigned32 Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173.			1	T
2411 R.A.Flags			DiameterIdentity	
Note				
			Unsigned32	
			Formerated	
CS-Requestor-Name				
2503 LCS-Priority				
2504 CicS-OoS Grouped 2505 Horizontal-Accuracy				
2505 Horizontal-Accuracy				
2506 Vertical-Accuracy				
2507 Vertical-Requested				
2508 Response-Time				
Enumerated 2510 Supported-GAD-Shapes Unsigned32 2511 LCS-Codeword UTF85tring 2512 LCS-Privacy-Check Enumerated 2513 Accuracy-Fuffilment-Indicator Enumerated 2514 Age-Of-Location-Estimate Unsigned32 2515 Velocity-Estimate Unsigned32 2515 Velocity-Estimate OctelString 2516 EUTRAN-Positioning-Data OctelString 2517 ECGI EUTRAN-Positioning-Data OctelString 2518 EUTRAN-Positioning-Data OctelString 2519 EUTRAN-Positioning-Data OctelString 2519 Seudonym-Indicator Enumerated Enumerated 2520 LCS-Service-Type-ID Unsigned32 2521 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Non-Session Grouped 2523 LCS-Optical-Session Grouped 2523 LCS-Optical-Session Grouped 2523 LCS-Privacy-Check-Non-Session Grouped 2523 LCS-Privacy-Check-Non-Session Grouped 2523 LCS-Privacy-Check-Non-Session Grouped 2523 CS-Privacy-Check-Non-Session Grouped 2523 CS-Privacy-Check-Non-Session Grouped 2523 LCS-Privacy-Check-Non-Session Grouped 2523 CS-Privacy-Check-Non-Session Grouped 2524 CS-Privacy-Check-Non-Session Grouped 2525 CS-Privacy-Check-Non-Session Grouped 2526 GERAN-Positioning-Info Grouped 2526 CS-Privacy-Check-Non-Session Grouped 2520 Defered-Location-Type Unsigned32 2520 Defered-Location-Type Unsigned32 2520 Defered-Location-Type Unsigned32 2527 Area-Identification Grouped 2524 Reporting-Interval Unsigned32 2527 Area-Identification Grouped 2528 Defered-MT-LR-Data Grouped 2524 Reporting-Interval Unsigned32 2527 Defered-MT-LR-Data Grouped 2528 Privacy-Privacy-Privacy-Privacy-Privacy-Privacy-Privacy-Privacy-Privacy-Priva				
2511 LCS-Codeword				
2511 LCS-Privacy-Check				
2513 Acuracy-Check				
2513 Accuracy-Fulfilment-Indicator Enumerated 2514 Age-Ot-Location-Estimate Unsigned32 2515 Velocity-Estimate OctetString 2516 EUTRAN-Positioning-Data OctetString 2517 EGG OctetString 2518 Location-Event Enumerated 2519 Pseudonym-Indicator Enumerated 2520 LCS-Service-Type-ID Unsigned32 2521 LCS-Privacy-Check-Non-Session Grouped 2522 LCS-Privacy-Check-Session Grouped 2523 LCS-QoS-Class Enumerated 2524 GERAN-Positioning-Info Grouped 2525 GERAN-Positioning-Data OctetString 2526 GERAN-Positioning-Data OctetString 2526 GERAN-Positioning-Data OctetString 2529 UTRAN-Positioning-Data OctetString 2529 UTRAN-Positioning-Data OctetString 2520 UTRAN-Positioning-Data OctetString 2521 LCS-Pos-Session OctetString 2522 UTRAN-Positioning-Data OctetString 2523 UTRAN-Positioning-Data OctetString 2524 GERAN-Positioning-Data OctetString 2525 UTRAN-Positioning-Data OctetString 2526 GERAN-Positioning-Data OctetString 2527 UTRAN-Positioning-Data OctetString 2528 UTRAN-Positioning-Data OctetString 2529 UTRAN-GANSS-Positioning-Data OctetString 2520 UTRAN-GANSS-Positioning-Data OctetString 2521 LCS-Reference-Number OctetString 2522 Observed-Location-Type Unsigned32 2523 Area-Event-Info Grouped 2524 Area-Definition Grouped 2525 Area Grouped 2526 GERAN-Positioning-Data OctetString 2527 Area-Identification Grouped 2528 Octet Octet Octet Octet Octet 2529 Unsigned32 OctetString 2520 Octet Octet Octet Octet Octet Octet 2521 Octet Octet Octet Octet Octet Octet Octet 2522 Octet Oc	2512	LCS-Privacy-Check		
2516 EUTRAN-Positioning-Data OctetString 2517 ECG	2513	Accuracy-Fulfilment-Indicator	Enumerated	
2516 EUTRAN-Positioning-Data OctetString 2517 ECG	2514	Age-Of-Location-Estimate	Unsigned32	
ECG CetelString	2515	Velocity-Estimate	OctetString	
Enumerated Enumerated Enumerated Enumerated Enumerated		8		
2519 Pseudonym-Indicator				
1520 LCS-Service-Type-ID				
1.521 LCS-Privacy-Check-Non-Session Grouped				
Enumerated GERAN-Positioning-Info				
ESCAN-Positioning-Info				
2526 GERAN-Positioning-Data OctetString 2526 GERAN-GANSS-Positioning-Data OctetString 2527 UTRAN-Positioning-Info Grouped 2528 UTRAN-Positioning-Info OctetString 2529 UTRAN-Positioning-Data OctetString 2520 UTRAN-GANSS-Positioning-Data OctetString 2520 UTRAN-GANSS-Positioning-Data OctetString 2521 UTRAN-GANSS-Positioning-Data OctetString 2522 UTRAN-GANSS-Positioning-Data OctetString 2523 LCS-Reference-Number OctetString 2524 UTRAN-GANSS-Positioning-Data Unsigned32 2525 Deferred-Location-Type Unsigned32 2526 OctetString OctetString 2527 Unsigned32 OctetString 2528 OctetString OctetString 2529 Deferred-Location-Type Unsigned32 2520 Area-Definition Grouped 2520 Area-Definition Grouped 2520 Area-Type Unsigned32 2521 Area-Identification Grouped 2523 Occurrence-Info Unsigned32 2524 Periodic-LDR-Information Grouped 2524 Periodic-LDR-Information Unsigned32 2524 Reporting-Innormation Unsigned32 2524 Reporting-Interval Unsigned32 2524 PLAN-Ilags Unsigned32 2524 PLAN-Ilags Unsigned32 2524 PLR-Flags Unsigned32 2524 PLR-Flags Unsigned32 2524 PLR-Flags Unsigned32 2524 Periodic-Location-Support-Indicator Enumerated 2525 Prioritized-List-Indicator Enumerated 2526 Periodic-Location-Support-Indicator Enumerated 2526 Periodic-Location-Support-Indicator Enumerated 2527 Deferred-MT-Le-Data Grouped 2528 Colli-Portion-ID Unsigned32 2529 OctetString UTF8String 2600 Inserved OctetString 2601 IMS-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated 2603 IP-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated 2604 Local-GW-Inserted-Ind				
2526 GERAN-GANSS-Positioning-Data OctetString 2527 UTRAN-Positioning-Info Grouped 2528 UTRAN-Positioning-Data OctetString 2529 UTRAN-GANSS-Positioning-Data OctetString 2530 LRR-Flags Unsigned32 2531 LCS-Reference-Number OctetString 2532 Deferred-Location-Type Unsigned32 2533 Area-Event-Info Grouped 2534 Area-Definition Grouped 2535 Area Grouped 2536 Area-Type Unsigned32 2537 Area-Identification Grouped 2538 Occurrence-Info Grouped 2539 Occurrence-Info Enumerated 2530 Interval-Time Unsigned32 2540 Periodic-LDR-Information Grouped 2541 Reporting-Amount Unsigned32 2542 Reporting-Interval Unsigned32 2543 Reporting-Interval Unsigned32 2544 PLMN-ID-List Grouped 2545 PLR-Flags Unsigned32 2546 PLR-Flags Unsigned32 2546 PLR-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Reporting-Cause Unsigned32 2549 LRA-Flags Unsigned32 2550 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 SML C-cell-Info Grouped 2552 SML C-cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 2560 Impact Grouped 2570 Purportitized-List-Indicator Enumerated 2571 Prioritized-List-Indicator Enumerated 2572 Cell-Portion-ID Unsigned32 2573 Cell-Portion-ID Unsigned32 2574 Deferred-MT-LR-Data Grouped 2575 Prioritized-List-Indicator Enumerated 2576 PLR-Flags Unsigned32 2577 Prioritized-List-Indicator Enumerated 2578 Prioritized-List-Indicator Enumerated 2579 Prioritized-List-Indicator Enumerated 2570 Prioritized-List-Indi				
2527 UTRAN-Positioning-Info Grouped 2528 UTRAN-Positioning-Data OctetString 2529 UTRAN-GAINSS-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-Type Unsigned32 2536 Area-Type Unsigned32 2537 Area-Identification Grouped 2538 Area-Type Unsigned32 2539 Area-Identification Grouped 2539 Interval-Time Unsigned32 2540 Periodic-LDR-Information Grouped 2541 Reporting-Amount Unsigned32 2542 Reporting-Interval Unsigned32 2543 Reporting-PLMN-List Grouped 2544 PLMN-ID-List Grouped 2545 PLR-Flags Unsigned32 2546 PLA-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Termination-Cause Unsigned32 2549 LRA-Flags Unsigned32 2540 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 ESMLC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 2500 Reserved - 2600 Ims-Application-Reference-Identifier UTF8String 2601 IMS-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated 2603 IP-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated 2606 Enumerated Enumerated 2607 Enumerated Enumerated 2608 Local-GW-Inserted-Indicator Enumerated 2609 Local-GW-Inserted-Indicator Enumerated 2600 Local-GW-Inserted-Indicator Enumerated 2600				
2528 UTRAN-Positioning-Data OctetString 2529 UTRAN-GANSS-Positioning-Data OctetString 2530 URR-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 Grouped 2537 Area-Identification Grouped 2538 Area-Type Unsigned32 2539 Area-Type Unsigned32 2530 Occurrence-Info Grouped 2539 Interval-Time Unsigned32 2530 Periodic-LDR-Information Grouped 2540 Periodic-LDR-Information Grouped 2541 Reporting-Amount Unsigned32 2542 Reporting-Interval Unsigned32 2543 Reporting-PLMN-List Grouped 2544 PLMN-ID-List Grouped 2545 PLR-Flags Unsigned32 2546 PLA-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Termination-Cause Unsigned32 2549 LRA-Flags Unsigned32 2549 LRA-Flags Unsigned32 2550 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 ESMC-Cell-Info Grouped 2552 ESMC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 2600 Inserved UTF8String 2601 IMS-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated 2603 IP-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated 2606 Inserved Enumerated 2607 Enumerated Enumerated 2608 Inserved Insurerated Enumerated 2609 Inserved Insurerated Enumerated 2600 Inserved Insurerated Insurerated 2600 Insurerated Insurerated 2600 Insurerated Insurerated				29.172 [24]
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 Grouped 2539 Occurrence-Info Grouped 2539 Interval-Time Unsigned32 2540 Periodic-LDR-Information Grouped 2541 Reporting-Amount Unsigned32 2542 Reporting-Interval Unsigned32 2543 Reporting-Interval Unsigned32 2544 Reporting-Interval Unsigned32 2545 PLR-Flags Unsigned32 2546 PLR-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 PLR-Flags Unsigned32 2549 LRA-Flags Unsigned32 2550 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 ESMLC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 2600 Impairs Compairs Compairs 2601 Impairs Impairs Compairs 2602 Low-Priority-Indicator Enumerated 2603 IP-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated 2606 Good Compairs Compairs 2607 Enumerated Enumerated 2608 Impairs Compairs 2609 Impairs Compairs 2600 Im				
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2535 Area				
2536 Area-Type				
2537 Area-Identification Grouped				
2539 Interval-Time				
2540 Periodic-LDR-Information Grouped	2538	Occurrence-Info		
2541 Reporting-Amount Unsigned32 2542 Reporting-Interval Unsigned32 2543 Reporting-PLMN-List Grouped 2544 PLMN-ID-List Grouped 2545 PLR-Flags Unsigned32 2546 PLA-Flags Unsigned32 2547 Deferred-MT-LR-Data Grouped 2548 Termination-Cause Unsigned32 2549 LRA-Flags Unsigned32 2549 LRA-Flags Unsigned32 2549 LRA-Flags Unsigned32 2550 Periodic-Location-Support-Indicator Enumerated 2551 Prioritized-List-Indicator Enumerated 2552 ESMLC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 Note: The AVP codes from 2554 to 2599 are reserved for TS 29.172. 2600 reserved				
2542 Reporting-Interval 2543 Reporting-PLMN-List 2544 PLMN-ID-List 2545 PLR-Flags 2546 PLA-Flags 2547 Deferred-MT-LR-Data 2548 Termination-Cause 2549 LRA-Flags 2549 Unsigned32 2549 Unsigned32 2549 LRA-Flags 2549 Unsigned32 2550 Periodic-Location-Support-Indicator 2551 Prioritized-List-Indicator 2551 Prioritized-List-Indicator 2552 ESMLC-Cell-Info 2553 Cell-Portion-ID Note: The AVP codes from 2554 to 2599 are reserved for TS 29.172. 2600 reserved				
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2551 Prioritized-List-Indicator Enumerated 2552 ESMLC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 Note: The AVP codes from 2554 to 2599 are reserved for TS 29.172. 2600 reserved - 2601 IMS-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated 2603 IP-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated				
2552 ESMLC-Cell-Info Grouped 2553 Cell-Portion-ID Unsigned32 Note: The AVP codes from 2554 to 2599 are reserved for TS 29.172. - 2600 reserved - 2601 IMS-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated 2603 IP-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated			i	
2553 Cell-Portion-ID Unsigned32 Note: The AVP codes from 2554 to 2599 are reserved for TS 29.172. 2600 reserved - 2601 IMS-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated 2603 IP-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated				
Note: The AVP codes from 2554 to 2599 are reserved for TS 29.172. 2600 reserved - 2601 IMS-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated 2603 IP-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated				
2600 reserved - 2601 IMS-Application-Reference-Identifier UTF8String 2602 Low-Priority-Indicator Enumerated 2603 IP-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated				1
2601IMS-Application-Reference-IdentifierUTF8String2602Low-Priority-IndicatorEnumerated2603IP-Realm-Default-IndicatorEnumerated2604Local-GW-Inserted-IndicatorEnumerated			-	
2602 Low-Priority-IndicatorEnumerated2603 IP-Realm-Default-IndicatorEnumerated2604 Local-GW-Inserted-IndicatorEnumerated			UTF8String	
2603 IP-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated				20,000 [5]
2604 Local-GW-Inserted-Indicator Enumerated				32.299 [5]
2605 Transcoder-Inserted-Indicator Enumerated	2604	Local-GW-Inserted-Indicator		
	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.	Unsignedsz	
2700 Not allocated	_	
2700 Not allocated 2701 Transit-IOI-List	- UTF8String	
2701 Halisi-loi-List 2702 Status-AS-Code	Enumerated	
2703 NNI-Information	Grouped	
2704 NNI-Type	Enumerated	
2705 Neighbour-Node-Address	Address	
2706 Relationship-Mode	Enumerated	
2707 Session-Direction		
2707 Session-Direction 2708 From-Address	Enumerated	
	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	LITEOOtsis s	
2716 BSSID	UTF8String	
2717 TAD-Identifier		
Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299.		1
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	
2824 NetLoc-Access-Support	Unsigned32	
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	-	
2901 Policy-Counter-Identifier	Grouped	
2902 Policy-Counter-Status	UTF8String	29.219 [26]
2903 Policy-Counter-Status-Report	Grouped	
2904 SL-Request-Type	Enumerated	
Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219.		
3000 reserved	-	
3001 Device-Action	Grouped	
3002 Device-Notification	Grouped	
3003 Trigger-Data	Grouped	
3004 Payload	OctetString	00 000 5073
3005 Action-Type	Enumerated	29.368 [27]
3006 Priority-Indication	Enumerated	1
3007 Reference-Number	Unsigned32	1
3008 Request-Status	Enumerated	1
3009 Delivery-Outcome	Enumerated	1
		ı

2010 Application Dort Identifier	Linaiere e dOO	
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.		
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	
Note: The AVP codes from 3112 to 3199 are reserved for TS 29.336.		
3200 SM-Delivery-Outcome-T4	Enumerated	
3201 Absent-Subscriber-Diagnostic-T4	Enumerated	29.337 [29]
3202 Trigger-Action	Unsigned32	20.001 [23]
3203 MTC-Error-Diagnostic	Unsigned32	
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.		
3300 SC-Address	OctetString	
3301 SM-RP-UI	OctetString	
3302 TFR-Flags	Unsigned32	
3303 SM-Delivery- Failure-Cause	Grouped	
3304 SM-Enumerated-Delivery-Failure-Cause	Enumerated	
3305 SM-Diagnostic-Info	OctetString	
3306 SM-Delivery-Timer	Unsigned32	
3307 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.	1 - · · - · - · - · · · · · · · · · · ·	
3400 reserved		
3401 Reason-Header	UTF8String	
	UTF8String	
3402 Instance-Id		
3403 Route-Header-Received	UTF8String	
3404 Route-Header-Transmitted	UTF8String	
3405 SM-Device-Trigger-Information	Grouped	
3406 MTC-IWF-Address	Address	32.299 [5]
3407 SM-Device-Trigger-Indicator	Enumerated	
3408 SM-Sequence-Number	Unsigned32	
3409 SMS-Result	Unsigned32]
3410 VCS-Information	Grouped	
3411 Basic-Service-Code	Grouped	
3412 Bearer-Capability	OctetString	
	Lociolomia	

3413	Teleservice	OctetString	
	ISUP-Location-Number	OctetString	
	Forwarding-Pending	Enumerated	
	ISUP-Release-Cause	Unsigned32	
	MSC-Address	OctetString	
	Network-Call-Reference-Number	OctetString	
	Start-of-Charging	Time	
	VLR-Number	OctetString	
	CN-Operator-Selection-Entity	Enumerated	
	ISUP-Cause-Diagnostics	OctetString	
	ISUP-Cause-Location	Unsigned32	
	ISUP-Cause-Value	Unsigned32	
	EPDG-Address	Address	
	The AVP codes from 3426 to 3499 are reserved for TS 32.299.	Address	
	reserved	<u> </u>	20 460 [24]
		-	29.468 [31]
	The AVP codes from 3500 to 3599 are reserved for TS 29.468.	LITEOCETIC C	
	Origin-App-Layer-User-Id	UTF8String	
	Target-App-Layer-User-Id	UTF8String	29.343 [32]
	ProSe-Function-ID	OctetString	
	ProSe-Request-Type	Unsigned32	
	The AVP codes from 3605 to 3699 are reserved for TS 29.343.		
	ProSe-Subscription-Data	Grouped	
	ProSe-Permission	Unsigned32	
	ProSe-Allowed-PLMN	Grouped	
	ProSe-Direct-Allowed	Unsigned32	29.344 [33]
	UPR-Flags	Unsigned32	
	PNR-Flags	Unsigned32	
	ProSe-Initial-Location-Information	Grouped	
	The AVP codes from 3708 to 3799 are reserved for TS 29.344.		
	Reserved		
	App-Layer-User-Id	UTF8String	
	Assistance-info	Grouped	
	Assistance-Info-Validity-Timer	Unsigned32	
	Discovery-Type	Unsigned32	
	Filter-Id	OctetString	
	MAC-Address	UTF8String	
3807	Match-Report	Grouped	
	Operating-Channel	Unsigned32	
3809	P2P-Features	Unsigned32	
3810	ProSe-App-Code	UTF8String	
3811	ProSe-App-Id	UTF8String	29.345 [34]
	ProSe-App-Mask	UTF8String	
3813	ProSe-Discovery-Filter	Grouped	
	PRR-Flags	Unsigned32	
	ProSe-Validity-Timer	Unsigned32	
	Requesting-EPUID	UTF8String	
	Targeted-EPUID	UTF8String	
	Time-Window	Unsigned32	
	WiFi-P2P-Assistance-Info	Grouped	
	WLAN-Assistance-Info	Grouped	
	WLAN-Link-Layer-Id	OctetString	
	WLAN-Link-Layer-Id-List	Grouped	
	The AVP codes from 3823 to 3899 are reserved for TS 29.345.	1 2.0000	

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.	
	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]
Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061.	
	DIAMETER_PCC_BEARER_EVENT	
4142	DIAMETER_BEARER_EVENT	29.212 [19]
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	29.272 [21]
	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]
	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.	
4221	DIAMETER_ERROR_UNREACHABLE_USER	
4222	DIAMETER_ERROR_SUSPENDED_USER	
4223	DIAMETER_ERROR_DETACHED_USER	29.172 [24]
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]
4225	DIAMETER_ERROR_POSITIONING_FAILED	
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT	
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.	·
	DIAMETER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	29.219 [26]
Note: The Experime	ntal Result Codes from 4242 to 4260 are reserved for the TS 29.219.	·

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER ERROR IDENTITIES DONT MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5008	DIAMETER_ERROR_TOO_MUCH_DATA	_00 [_]
5009	DIAMETER ERROR NOT SUPPORTED USER DATA	
5010	unassigned	
5011	DIAMETER ERROR FEATURE UNSUPPORTED	
5012	DIAMETER ERROR SERVING NODE FEATURE UNSUPP	
3012	ORTED	
Note: The Expe	erimental Result Codes from 5013 to 5020 are reserved for the TS	S 29.229. 32.299 [5]
Note: The Expe	rimental Result Codes from 5021 to 5040 are reserved for the TS	
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	DIAMETER ERROR W-APN UNUSED BY USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC	
0040	RIPTION	29.234 [6]
5044	DIAMETER ERROR USER NO W-APN SUBSCRIPTION	
5045	DIAMETER ERROR UNSUITABLE NETWORK	
	rimental Result Codes from 5046 to 5060 are reserved for the TS	S 20 23/I
5061	INVALID_SERVICE_INFORMATION	3 23.234.
5062	FILTER_RESTRICTIONS	
	REQUESTED SERVICE NOT_AUTHORIZED	
5063		29.209 [8],
5064	DUPLICATED_AF_SESSION	29.211 [17],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.214 [18]
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
5068	TEMPORARY_NETWORK_FAILURE	
and and	erimental Result Codes from 5069 to 5080 are reserved for TS 29 TS 29.214.	9.209, TS 29.211
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	20, 220, [4]
5105	DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC	29.329 [4]
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER ERROR DSAL NOT AVAILABLE	
	erimental Result Codes from 5109 to 5119 are reserved for the TS	S 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
	primental Result Codes from 5124 to 5139 are reserved for the TS	S 29.061.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	
5142	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	29.212 [19]
5145	DIAMETER QOS RULE EVENT	
5146	reserved	
	DIAMETER_ERROR_CONFLICTING_REQUEST	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST DIAMETER_ADC_RULE_EVENT	
5148		2 20 212
	rimental Result Codes from 5149 to 5159 are reserved for the TS	
5401	UIAWETEK_EKKUK_IWPI_UNKNUWN	29.109 [7

5402	DIAMETER_ERROR_NOT_AUTHORIZED	
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	
Note: The 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	
3430	WORK	29.173 [25]
Note: The Evn	erimental Result Codes from 5491 to 5509 are reserved for the TS	\$ 29 173
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI	3 23.173.
3310	TY	29.336 [28]
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	29.550 [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]
	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 17.
3030	ER	
5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P	
3031	LMN	
5632	DIAMETER ERROR INVALID APPLICATION CODE	
		20 245 [24]
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	29.345 [34]
5634	DIAMETER_ERROR_PROXIMITY_REJECTED	
5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	
5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_	
5007	PLMN	
5637	DIAMETER_ERROR_PROXIMITY_CANCELLED	

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

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

TSG # TSG Doc. CR Rev Subject/Comment Old New		Change history							
2004-09 CN#25 NP-940401 001 Correction of Charging application reference 6.0.0 6.1.0 2004-09 CN#25 NP-940401 003 Removal of User Data Request Type AVP 6.0.0 6.1.0 6.1.0 6.2.0 6.0.0 6.1.0 6.0.0			1	CR	Rev	Subject/Comment			
2004-09 CN#25									
2004-09 CN#25 NP-04041 003	2004-09						6.0.0		
2004-19 CN825 NP-040579 106							6.0.0		
2004-12 CNy26 NP-040579 006 Inclusion of missing Cx AVPs 6.1.0 6.2.0 2004-12 CNy26 NP-040579 009 1 Addition of Gmb interface 6.1.0 6.2.0 2004-12 CNy26 NP-040579 009 1 Addition of Gmb interface 6.1.0 6.2.0 2004-12 CNy26 NP-040579 011 Gg interface allocations 6.1.0 6.2.0 2004-12 CNy26 NP-040579 011 Gg interface allocations 6.1.0 6.2.0 2004-12 CNy26 NP-040579 011 Gg interface allocations 6.1.0 6.2.0 2004-12 CNy26 NP-040579 012 Addition of Gx interface 6.1.0 6.2.0 2004-12 CNy26 NP-040579 012 Addition of Gx interface 6.1.0 6.2.0 2005-03 CNy27 NP-050039 043 Allocations for Gw interface NP-050039 045									
2004-12 CN26 NP-040590 1					1				
2004-12 CNe26 NP.040679 009 1									
2004-12 CN#26 NP-040800 01 2 Documenting the Reuse of the 3GPP specific application identifier 6.1.0 6.2.0					1				
OR 0 f Re 0 in the Charging Interfaces									
2004-12 CN#26 NP-040579 011 Gi interface allocations	2004-12	CN#26	NP-040600	010	2		6.1.0	6.2.0	
2005-03	0004.40	ON1//00	ND 040570	044			0.4.0	0.00	
NP-950047 040 1 WLAN Diameter AVP and result codes NP-950039 043 Allocations for Gr. interface NP-950039 045 Allocations for Gr. interface NP-950039 046 Allocations for Gr. interface NP-950039 046 Allocations for Gr. interface NP-950039 046 Allocations for MMS, MM10 Interface NP-950039 045 Addition of Maximum-Number-Accesses AVP NP-9500310 0505 Addition of Maximum-Number-Accesses AVP NP-9500310 0505 Addition of Pr reference point to TS 29-230 NP-950310 0505 Addition of Pr reference point to TS 29-230 NP-950310 0505 Addition of Pr reference point to TS 29-230 NP-950310 NP-9503									
NP-050039 043					4				
NP-050030 045 Allocations for Gmb interface	2005-03	CN#27			1		6.2.0	6.3.0	
NP-050039 046 Allocations for MMS, MM10 Interface CP-050038 0505 CP-05038 0505 CP-050310 CP-050310 O551 Addition of Maximum-Number-Accesses AVP 6.4.0 6.5.0							1		
CP-050088 0050 Cx interface allocation correction CP-050098 0050 Cx interface allocation correction CP-050196 0051 Addition of Maximum-Number-Accesses AVP 6.4.0 6.5.0		}					-		
CP-050196 OS01 1 Addition of Maximum-Number-Accesses AVP	2005.06	CT#20					620	6.4.0	
CP-050440 OSC2 1	2005-06	C1#26			1		6.3.0	6.4.0	
CP-050310 0053	2005.00	CT#20			1		640	6 5 0	
CP-050310 0054 Error code cleanup CP-050310 0056 Addition of Rx ref. point and renaming of Experimental Result Codes Addition of Rx ref. point and renaming of Experimental Result Codes CP-050310 0056 Addition of GUSS timestamp AVP CP-050612 0058 Addition of GBA-Type AVP 7.0.0 7.1.0 CP-050612 0065 CP-050612 0065 Reservation of AVP codes for 32.299 CP-050625 0066 Management of Sh subscriptions CP-060073 0069 Additional Gmb AVP Allocation CP-060073 0069 Adding data type of some of WLAN-related AVPs 7.1.0 7.2.0 CP-060084 0071 User-Data in the response to Sh-Subs-Notif CP-060084 0072 1 New error indications for the Sh-Subs-Notif CP-060084 0072 1 New error indications for the Sh-Subs-Notif CP-060084 0072 1 New error indications for the Sh-Subs-Notif CP-060084 0072 1 New AVP Code 7.3.0 7.4.0 CP-060417 0080 Errors to be sent in response to Sh-Notif CP-060417 0081 Definition of specific Diameter codes for DSAI CP-060560 0085 1 Optimization of handling of Wildcarded PSIs CP-060560 0085 Addition of Specific Diameter codes for Emergency Purposes CP-060566 0091 Allocation of Diameter Error Code for Emergency Purposes CP-060566 0091 Allocation of Success Result Code Range for Gi Interface CP-070020 0093 Allocation of Success Result Code Range for Gi Interface CP-070020 0093 Allocation of Success Result Code Range for Gi Interface CP-070312 0096 Experimental-Result-Code AVP for Gi Interface CP-070312 0098 Experimental-Result-Code AVP for Gi Interface CP-070312 0098 Experimental-Result-Code for Gmb interface CP-070312 0098 Experimental-Result-Codes for Gmb interface CP-070312 0096 CP-0700312 0096	2005-09	01#29			1		0.4.0	0.5.0	
CP-050310 0056		}					1		
Codes							ł		
2005-09 CT#29 CP-050317 0055 Addition of GUSS timestamp AVP 6.5.0 7.0.0			CF-050310	0036					
CP-050624 OS65	2005-09	CT#20	CP-050317	0055			650	700	
CP-050612 0063									
CP-050612 0065 Reservation of AVP codes for 32.299	2003-12	01#30					7.0.0	7.1.0	
CP-050625 0066							1		
CP-060073 CP-060084 O77 User-Data in the response to Sh-Subs-Notif CP-060084 O77 User-Data in the response to Sh-Subs-Notif CP-060084 O77 1 New error indications for the Sh-Subs-Notif O7.2.0 7.3.0		ŀ					i		
CP-060084 0071 User-Data in the response to Sh-Subs-Notif	2006-03	CT#31					710	720	
CP-060084 0772 1 New error indications for the Sh-Subs-Notif procedure 7.2.0 7.3.0	2000 00	01//01					1	1.2.0	
2006-06					1		i		
CP-060417 0077 3 New AVP Code CP-060417 0080 Errors to be sent in response to Sh-Notif CP-060417 0081 Definition of specific Diameter codes for DSAI CP-060456 0085 1 Optimization of specific Diameter codes for DSAI 7.4.0 7.5.0 CP-060562 0086 Addition of Diameter Error Code for Emergency Purposes CP-060555 0087 Allocation of new AVP code for Gmb CP-060555 0089 AVP code allocations for Rf and Ro interfaces CP-060555 0089 AVP code allocations for Rf and Ro interfaces CP-060555 0099 Allocation of Success Result Code Range for Gi Interface CP-070020 0093 Allocation of new AVP code for DSAI-Tag AVP CP-070020 0093 Allocation of new AVP code for DSAI-Tag AVP CP-070020 0093 Allocation of Experimental-Result-Code AVP for Gi Interface 7.6.0 CP-070318 0096 Diameter application ID for the Rei-7 Rx interface 7.6.0 7.7.0 CP-070312 0098 Experimental-Result-Codes for Gmb Interface CP-070312 0098 Correction of Diameter AVP code allocation 7.7.0 7.8.0 CP-070312 0100 Correction of Diameter AVP code allocation 7.7.0 7.8.0 CP-070312 0104 AVP code reservation for 32.299 in Rei-7 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol 7.7.0 7.8.0 CP-070312 0105 AVP code reservation for 32.299 in Rei-8 CP-080019 0111 AVP code reservation for 32.299 in Rei-8 CP-080019 0109 Correction on AVP code allocation reservation for TS 32.299 in Rei-8 CP-080019 0112 Correction on AVP code allocation reservation for TS 32.299 in Rei-7 CP-080040 0113 Correction on AVP code allocation reservation for TS 32.299 in Rei-7 CP-080040 0114 A VP code reservation for TS 32.299 in Rei-8 CP-080040 0117 A new Diameter Permanent Failure Code for Gx 8.1.0 8.2.0 8.3.0 8.3.0 CT#41 CP-080460 0122 STaMIP Application Id CP-08	2006-06	CT#32					7.2.0	7.3.0	
CP-060417 0080 Errors to be sent in response to Sh-Notif CP-060417 0081 Definition of specific Diameter codes for DSAI 7.4.0 7.5.0					3				
CP-060417 0081 Definition of specific Diameter codes for DSAI					_				
CT#34		Ì					i		
CP-060562 0086 Addition of Diameter Error Code for Emergency Purposes	2006-12	CT#34			1		7.4.0	7.5.0	
CP-060555 0087			CP-060562	0086			Ī		
CP-060566 0091 Allocation of Success Result Code Range for Gi Interface		Ì	CP-060555	0087			Ī		
CP-070020 O993 C3 requested addition of new AVP code values to 3GPP TS 29.230 CP-070020 O993 Allocation of new AVP code for DSAI-Tag AVP		Ì	CP-060555	0089		AVP code allocations for Rf and Ro interfaces	Ī		
CP-070020 0093 Allocation of new AVP code for DSAI-Tag AVP			CP-060566	0091		Allocation of Success Result Code Range for Gi Interface	Ī		
CP-070020 0093 Allocation of Experimental-Result-Code AVP for Gi Interface 7.6.0 7.7.0	2007-03	CT#35	CP-070020	0093		C3 requested addition of new AVP code values to 3GPP TS 29.230	7.5.0	7.6.0	
2007-06 CT#36 CP-070318 0096 Diameter application ID for the Rel-7 Rx interface CP-070312 0098 Experimental-Result-Codes for Gmb interface CP-070312 0100 Correction of Diameter AVP code allocation CP-070312 0100 Application ID for Gx protocol CT#37 CP-070527 0102 Application ID for Gx protocol CT#38 CP-070743 0104 AVP code reservation for 32.299 in Rel-7 C7.8.0 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol CT#38 CP-070755 0101 AVP code reservation for 32.299 in Rel-8 CP-080015 0109 Correction of reference to TS 29.140 CP-080019 0111 AVP code reservation for TS 32.299 in Rel-8 CP-080019 0107 Wildcarded Public User Identities CP-080191 0112 Correction on AVP code allocation reservation for TS 32.299 in Rel-8 CP-080204 0113 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-8 CP-080204 0113 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-8 CP-080204 0113 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-8 CP-080204 0113 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-8 CP-080204 0113 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-8 CP-080204 0113 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-8 CP-080267 0117 1 A new Diameter Permanent Failure Code for Gx 8.1.0 8.2.0 8.3.0 CT#41 CP-080460 0121 Support of "Loose-Route" indication from HSS CP-080460 0121 Stamili Application Id			CP-070020	0093		Allocation of new AVP code for DSAI-Tag AVP			
CP-070312 0.098 Experimental-Result-Codes for Gmb interface CP-070312 0.100 Correction of Diameter AVP code allocation 7.7.0 7.8.0 2007-09 CT#37 CP-070527 0.102 Application ID for Gx protocol 7.7.0 7.8.0 2007-12 CT#38 CP-070743 0.104 AVP code reservation for 32.299 in Rel-7 7.8.0 7.9.0 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol Codes for Gx protocol Codes for Gx protocol CP-070755 0.101 4 AVP assignments to support SIP Digest Authentication 7.9.0 8.0.0 AVP code reservation for 32.299 in Rel-8 CP-080015 0.109 Correction of reference to TS 29.140 8.0.0 CP-080019 0.111 AVP code reservation for TS 32.299 in Rel-8 CP-080019 0.111 AVP code reservation for TS 32.299 in Rel-8 CP-080191 0.112 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 CP-080204 0.113 Correction on AVP code allocation reservation for TS 32.299 CP-080267 0.117 A new Diameter Permanent Failure Code for Gx 8.1.0 8.2.0 CP-080460 0.121 Support of "Loose-Route" indication from HSS CP-080460 0.122 STAMIP Application Id			CP-070020	0093		Allocation of Experimental-Result-Code AVP for Gi Interface			
CP-070312 0100 Correction of Diameter AVP code allocation	2007-06	CT#36	CP-070318	0096		Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0	
2007-09 CT#37 CP-070527 0102 Application ID for Gx protocol 7.7.0 7.8.0						Experimental-Result-Codes for Gmb interface]		
CT#38							<u> </u>	<u></u>	
CP-070755 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol	2007-09	CT#37	CP-070527	0102		Application ID for Gx protocol	7.7.0	7.8.0	
Codes for Gx protocol C7438	2007-12	CT#38	CP-070743				7.8.0	7.9.0	
CT#38				0105					
CT#39						Codes for Gx protocol			
CT#39	2007-12	CT#38	CP-070755		4		7.9.0	8.0.0	
CP-080019 0111 AVP code reservation for TS 32.299 in Rel-8 Wildcarded Public User Identities CP-080191 0112 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 CP-080204 0113 Correction on AVP code allocation reservation for TS 32.299 CT#40 CP-080267 0117 A new Diameter Permanent Failure Code for Gx 8.1.0 8.2.0 Rel-7 CP-080456 0119 Emergency Public User Identity Removal CP-080460 CT#41 CP-080460 0121 Support of "Loose-Route" indication from HSS CP-080460 0122 STaMIP Application Id									
CP-080019 0107 Wildcarded Public User Identities CP-080191 0112 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7 CP-080204 0113 1 Correction on AVP code allocation reservation for TS 32.299	2008-03	CT#39					8.0.0	8.1.0	
CP-080191 0112 1 Correction on AVP code allocation reservation for TS 32.299 in Rel-7		[1		
Rel-7 CP-080204 0113 1 Correction on AVP code allocation reservation for TS 32.299 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-080456 0119 Emergency Public User Identity Removal 8.2.0 8.3.0 2008-09 CT#41 CP-080460 0121 1 Support of "Loose-Route" indication from HSS CP-080460 0122 1 STaMIP Application Id									
CP-080204 0113 1 Correction on AVP code allocation reservation for TS 32.299			CP-080191	0112	1				
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-080456 0119 Emergency Public User Identity Removal 8.2.0 8.3.0 2008-09 CT#41 CP-080460 0121 1 Support of "Loose-Route" indication from HSS 2008-09 CT#41 CP-080460 0122 1 STaMIP Application Id		İ	CP-080204	0113	1		i		
2008-09 CT#41 CP-080456 0119 Emergency Public User Identity Removal 8.2.0 8.3.0 2008-09 CT#41 CP-080460 0121 1 Support of "Loose-Route" indication from HSS 2008-09 CT#41 CP-080460 0122 1 STaMIP Application Id	2008-06	CT#40					8.1.0	8.2.0	
2008-09 CT#41 CP-080460 0121 1 Support of "Loose-Route" indication from HSS 2008-09 CT#41 CP-080460 0122 1 STaMIP Application Id			CP-080456	0119					
2008-09 CT#41 CP-080460 0122 1 STaMIP Application Id					1		Ī		
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2008-09	CT#41	CP-080463	0124		Assignment) New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42	CP-080691		2	Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691			Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044	0130	1	Update for ReadyForSM	8.4.0	8.5.0
2009-03	CT#43	CP-090044			Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090026			Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033		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			Location of Permanent Failure result code range for the S9	8.4.0	8.5.0
2000 00	01//-10	01 000024	0140		application	0.4.0	0.0.0
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
2000 00	01//	CP-090299		_	AVP code reservation for TS 32.299	10.0.0	0.0.0
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"	┪	
	1	01 030233	0146	-	Removal of Requesting Node Type from AIR	┪	
		CP-090299			S6b Application ID	╣	
2000 00	CT#45					960	070
2009-09	CT#45	CP-090530 CP-090530		₩	Allocation of Experimental-Result-Codes for S9 protocol AVP code allocation for TS 29.212	8.6.0	8.7.0
				├─		4	
		CP-090531		├	Update of the AVP type for the User-Id	4	
2000 00	CT#45	CP-090531		₩	Trace Depth per session	0.7.0	0.00
2009-09	CT#45	CP-090557 CP-090800		1	AVP code range for charging	8.7.0	9.0.0
2009-12	CT#46			1	ICS-Flag	9.0.0	9.1.0
		CP-091032		<u> </u>	From GMLC-Address to GMLC-Number		
			0160 0163	2	Session-Priority AVP Introduction of SLh application related AVPs and Experimental	-	
			0103	2	Result codes		
			0166	<u> </u>	Missing AVP error codes		
		CP-090797		1	Introduction of SLg application related AVPs and Application	-	
		C1 -030131	0107	'	Identifier		
2010-03	CT#47	CP-100031	0158	1	Wildcarded Public Identity	9.1.0	9.2.0
2010 00	01//-1/	CP-100034			Correction on AVP code allocation reservation for TS 32.299 in	0.1.0	0.2.0
		01 100001	0.00	ľ	Rel-9		
		CP-100046	0169	1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109	1	
		CP-100046			Error codes in 29.172 for SLg		
	İ	CP-100048	0174	1	AVPs in 29.272 for TADS support		Ì
		CP-100040			Error codes in 29.272 for Unknown MME		
		CP-100236		4	EPS Subcsriber State and Location Information Request		
		CP-100033	0180		One time notification AVP allocation		
		CP-100046			Addition of the LCS-QoS-Class attribute value		
		CP-100175	0182		Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
2010-06	CT#48	CP-100263	0188	1	AVP Codes for PCC	9.2.0	9.3.0
			0183		EPS state and location retrieval		
		CD 100297	0186		SGmb Application ID		
		CP-100277			New APVs in S6a protocol		
2010-09	CT#49				Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.0
2010-09	CT#49	CP-100277 CP-100463	0197		Addition of Diameter codes and identifiers for the SLg and SLh interfaces	9.3.0	9.4.0
		CP-100277 CP-100463 CP-100464	0197 0196	1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC		
	CT#49	CP-100277 CP-100463 CP-100464 CP-100465	0197 0196 0193	1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator	9.3.0	
		CP-100463 CP-100464 CP-100465 CP-100466	0197 0196 0193 0198	1 2	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address		
2010-09	CT#49	CP-100277 CP-100463 CP-100464 CP-100465 CP-100466 CP-100466	0197 0196 0193 0198 0199	1 2	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature	9.4.0	10.0
2010-09		CP-100277 CP-100463 CP-100464 CP-100465 CP-100466 CP-100699	0197 0196 0193 0198 0199 0205	1 2 1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data		10.0
2010-09	CT#49	CP-100277 CP-100463 CP-100464 CP-100465 CP-100466 CP-100699 CP-100687	0197 0196 0193 0198 0199 0205 0201	1 2 1 1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS	9.4.0	10.0
2010-09	CT#49	CP-100277 CP-100463 CP-100465 CP-100466 CP-100466 CP-100699 CP-100687 CP-100683	0197 0196 0193 0198 0199 0205 0201 0200	1 2 1 1 1 1 1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA	9.4.0	10.0
2010-09	CT#49	CP-100277 CP-100463 CP-100465 CP-100465 CP-100466 CP-100699 CP-100683 CP-100688	0197 0196 0193 0198 0199 0205 0201 0200 0206	1 2 1 1 1 1 1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription	9.4.0	10.0
2010-09	CT#49 CT#50	CP-100277 CP-100464 CP-100466 CP-100466 CP-100699 CP-100683 CP-100688 CP-100846	0197 0196 0193 0198 0199 0205 0201 0200 0206 0203	1 2 1 1 1 1 1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic	9.4.0	10.0
2010-09	CT#49	CP-100277 CP-100463 CP-100465 CP-100466 CP-100466 CP-100687 CP-100688 CP-100688 CP-100846 CP-110051	0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212	1 2 1 1 1 1 1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction	9.4.0	10.0
2010-09 2010-12	CT#49 CT#50	CP-100277 CP-100464 CP-100465 CP-100466 CP-100699 CP-100683 CP-100688 CP-100684 CP-110051 CP-110054	0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215	1 2 1 1 1 1 1 1 1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs	9.4.0	10.0
2010-09 2010-12	CT#49 CT#50	CP-100277 CP-100463 CP-100465 CP-100466 CP-100699 CP-100687 CP-100688 CP-100688 CP-100684 CP-110051 CP-110054 CP-110054	0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207	1 2 1 1 1 1 1 1 2 2	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT)	9.4.0	10.0
2010-09 2010-12 2011-03	CT#49 CT#50	CP-100277 CP-100463 CP-100465 CP-100466 CP-100699 CP-100683 CP-100688 CP-100688 CP-110051 CP-110054 CP-110054 CP-110087 CP-110088	0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209	1 2 1 1 1 1 1 1 1 2 2 1 1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs	9.4.0	10.0
2010-09 2010-12 2011-03	CT#49 CT#50	CP-100277 CP-100464 CP-100465 CP-100466 CP-100699 CP-100687 CP-100688 CP-1006846 CP-110051 CP-110087 CP-110088 CP-110088	0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219	1 2 1 1 1 1 1 1 2 1 2	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration	9.4.0	10.0
2010-09 2010-12 2011-03	CT#49 CT#50	CP-100277 CP-100463 CP-100465 CP-100466 CP-100699 CP-100687 CP-100688 CP-100846 CP-110051 CP-110087 CP-110088 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084	0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0231	1 2 1 1 1 1 1 1 2 1 2	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup	9.4.0	10.0
2010-09 2010-12 2011-03	CT#49 CT#50	CP-100277 CP-100463 CP-100465 CP-100466 CP-100699 CP-100687 CP-100688 CP-100846 CP-110051 CP-110087 CP-110088 CP-110087 CP-110088 CP-110087 CP-110088 CP-110088	0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0215 0207 0209 0219 0231 0226	1 2 1 1 1 1 1 1 2 1 2	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces	9.4.0	10.0
2010-09 2010-12 2011-03	CT#49 CT#50	CP-100277 CP-100463 CP-100465 CP-100466 CP-100699 CP-100687 CP-100683 CP-100846 CP-110051 CP-110087 CP-110088 CP-110089 CP-110089 CP-110089 CP-110089 CP-110089 CP-110089 CP-110089 CP-110089 CP-110089 CP-110089 CP-110089 CP-110089 CP-110089 CP-110089 CP-110089 CP-110089 CP-110089 CP-110089 CP-110089	0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0231 0226 0216	1 2 1 1 1 1 1 1 2 1 2	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent	9.4.0	10.0
2010-09 2010-12 2011-03	CT#49 CT#50	CP-100277 CP-100463 CP-100465 CP-100466 CP-100466 CP-100699 CP-100683 CP-100688 CP-100846 CP-110051 CP-110088 CP-110087 CP-110088 CP-110349 CP-110349 CP-110349 CP-110349 CP-110349 CP-110349 CP-110349 CP-110349 CP-110340	0197 0196 0193 0198 0199 0205 0201 0206 0203 0212 0215 0207 0209 0219 0231 0226 0216 0223	1 2 1 1 1 1 1 1 1 2 1 1 2 1 1 2 1 1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging	9.4.0	10.0
2010-09 2010-12 2011-03 2011-06	CT#49 CT#50 CT#51 CT#52	CP-100277 CP-100463 CP-100465 CP-100466 CP-100466 CP-100699 CP-100683 CP-100688 CP-100846 CP-110051 CP-110087 CP-110088 CP-110089 CP-110349 CP-110359 CP-110370 CP-110370	0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0231 0226 0216 0223 0223	1 1 2 1 1 1 1 1 1 1 2 1 2 1 2 1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging PUR-Flags AVP	9.4.0	10.0
2010-09 2010-12 2011-03 2011-06	CT#49 CT#50	CP-100277 CP-100463 CP-100465 CP-100466 CP-100466 CP-100699 CP-100683 CP-100688 CP-100684 CP-110051 CP-110054 CP-110054 CP-110349 CP-110349 CP-110349 CP-110359 CP-110375 CP-110375 CP-110375 CP-110375	0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0215 0207 0209 0219 0231 0226 0216 0223 0227 0236	1 1 2 1 1 1 1 1 1 1 2 1 2 1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging PUR-Flags AVP AVP code alignment with 29.212	9.4.0	10.0
2010-09 2010-09 2010-12 2011-03 2011-06	CT#49 CT#50 CT#51 CT#52	CP-100277 CP-100463 CP-100465 CP-100466 CP-100466 CP-100699 CP-100683 CP-100688 CP-100846 CP-110051 CP-110087 CP-110088 CP-110089 CP-110349 CP-110359 CP-110370 CP-110370	0197 0196 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0231 0226 0216 0226 0216 0226 0217	1 1 2 1 1 1 1 1 1 2 1 2 1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging PUR-Flags AVP	9.4.0	10.0.

		CP-110555			Failure code and AVP code alignment with 29.212		
		CP-110722			Priviledged sender		
2011-09	CT#53	CP-110584		1	Add vSRVCC updates to the Diameter AVP code table	10.4.0	11.0.0
		CP-110579			AVP code alignment with 32.299		
2011 12	CT#54	CP-110555		4	AVP code reservation for 29.212	11.00	11 1 (
2011-12	C1#54	CP-110812		1	SWx Restoration AVPs	11.0.0	11.1.0
	İ	CP-110812			Sy and Sd Application IDs		}
	}	CP-110775			New AVP codes for MBMS IP unicast encapsulation		}
		CP-110775		4	New AVP codes for MBMS IP multicast encapsulation	-	
	ļ	CP-110786 CP-110811		1	MME-Realm AVP code allocation	-	}
	}	CP-110611		4	Equivalent PLMN CSG Subscription Request Restoration of Wildcarded-IMPU AVP		1
2012.02	CT#FF	CP-110781			Codes Allocation for AVPs on Initial Attach	11.1.0	11 2 0
2012-03	CT#55	CP-120025 CP-120038		1	New AVP codes for Absolute Time of MBMS Data Transfer over	11.1.0	11.2.0
		CF-120036	0200		SGmb		
	Ì	CP-120038	0201	1	Allocating Diameter AVP codes for TS 29.219 and TS 29.212		1
2012-06	CT#56	CP-120240			Codes Allocation for AVPs on NPLI	11.2.0	11 3 (
2012-00	C1#30	CP-120238			Adding new Diameter AVPs to Diameter table to support Trusted	11.2.0	11.3.0
		CF-120230	0294	'	WLAN Access feature		
		CP-120225	0206	1	Trust Relationship Indication		1
		CP-120225			Corrections to reference titles	_	
	Ì	CP-120251			Diameter Code Allocation for TS 29.219		1
	Ì	CP-120247			Network Name AVP codes		1
	Ì	CP-120219			Duplicated AVP names		1
2012-09	CT#57	CP-120219			PS additional number allocation	11.3.0	11 / /
2012-09	01#37	CP-120481 CP-120473			SMS in MME/SGSN	11.3.0	11.4.0
	-	CP-120473			AAA Failure Recovery AVP codes	-	
	-					-	}
	-	CP-120474			Transport Access Type AVP for BBAI	-	}
		CP-120480 CP-120472			Local Time Zone	-	
		CP-120472	0308	-	Allocating Application Identifier and command code for Tsp		
	İ	CD 400470	0000		Interface		-
		CP-120472	0309	-	Application Identifier, Command Codes and AVP range for S6m interface		
	i	CP-120667	0212	1	GMLC-Name		}
	i	CF-120007	0312		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 (
2012-12	C1#36	CP-120731			Codes and Identifier Allocation for T4 Specification	11.4.0	11.5.0
		CP-120731			AVP Code Allocation for 29.336		
		CP-120731			Diameter AVP code value allocation in TS 29.368	_	}
	Ì	CP-120732			Application Identifier, Command Codes and AVP codes for SGd,		
		C1 -120732	0313	_	S6c		
		CP-120716	0324	1	AVP name modification in TS 32.299		
	ł	CP-120742			UE Time Zone AVP		1
	İ	CP-120741			Use of Flag instead of Enumerated AVPs		1
		CP-120741		_	Use of Flag instead of Enumerated AVPs		
		CP-120743		_	PSI direct routing with restoration procedures		
	ł	CP-120743		_	EPS LocationInformation Support		1
2013-03	CT#59	CP-130026		1	Diameter error code for TS 29.219	11.5.0	1160
2013-03	01#39	CP-130026			MDT parameters	11.5.0	11.0.0
2013-03	CT#59	CP-130026			New AVPs for Lgd interface	11.6.0	1200
ZU 13-U3	01#38			-		11.0.0	12.0.0
2013-06	CT#60	CP-130030 CP-130288	0341	1	Validity Time of Short Message Add new DER-S6b-flag AVP	12.0.0	12 1 (
ZU 13-U0	O 1#0U					12.0.0	12.1.(
	-	CP-130298			Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs	-	
		CP-130292				-	
	-	CP-130279			Definition of SS Status for Call Barring	-	}
	-	CP-130380			New SGs-MME-Identity AVP	-	}
		CP-130291	U348	2	New AVPs for deferred MT-LR and periodic MO-LR TTTP		
		CD 400007	0047	4	procedures over Lgd interface	-	
	-	CP-130297			Application Port Identifier	-	
		CP-130374			MTRR on Sh	-	
	-	CP-130295			Restoration Priority during SGW and PGW restoration procedures		-
0040 5 -	OT:::::	CP-130378			SIPTO permission for Local Network enhancements	10 : -	40 -
2013-09	CT#61	CP-130454			New MBMS flag for eMBMS restoration	12.1.0	12.2.
		CP-130461			AVP code reservation for TS 32.299 Rel-12		
		CP-130460	0368	-	Allocation of Diameter codes and identifiers for 29.212 and 29.215	1.5	
2013-09				-	Vendor-specific command code for Trigger-Establishment-	12.2.0	12.2.
	1				Request/Answer corrected	1	
2013-12	CT#62	CP-130624			New AVP for optimized LCS procedure for combined MME/SGSN	12.2.1	12.3.
	1	CP-130631		1	Adding E-SMLC provided Cell info and Cell Portion	_	
		CP-130800		_	New AVPs for SMS for IMS UE without MSISDN in TS 29.338		
	ì	CP-130600		1	Allocation of Diameter codes for 32.299	7	
					Allocation of Diameter codes for 29.212	ヿ゙	
		CP-130605	0378	-	Allocation of Diameter codes for 29.212		
		CP-130605 CP-130639			SGSN CAMEL Subscription Indication		
2014-03	CT#63		0380	-		12.3.0	12.4.0

		CP-140023	0383	1	Definition of WLAN-related AVPs		
2014-06	CT#64	CP-140211	0385	1	Protocol enhancements to indicate support of device recall and	12.4.0	12.5.0
					replace by SMS-SC		
		CP-140251			AVP allocation for Error handling, MTC error diagnostic		
		CP-140257		1	SS-Status AVP Definition		
		CP-140252	0392	-	Definition of AVPs for Network Location in TWLAN		
		CP-140236	0399	-	TWAN-BSSID AVP re-naming		
		CP-140247	0397	-	New AVPs for Trusted WLAN access		
		CP-140231	0390	1	Adding Codes for 29.214		
2014-09	CT#65	CP-140515	0403	1	T-GRUU restoration	12.5.0	12.6.0
		CP-140517	0404	1	MB2-C codes		
		CP-140505	0405	1	New AVPs for Trusted WLAN access		
ĺ		CP-140506	0406	1	P-CSCF Restoration indication		
ĺ	ĺ	CP-140516	0407	2	Closing TS 29.234 and reused AVP in TS 29.273		İ
ĺ	ĺ	CP-140513	0408	-	Identification of the HSS		İ
	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		
			0410	1	WLCP key for WLCP signalling protection		
			0411	-	Reset-ID		
			0416	1	Code definitions for 32.299		
			0428	-	Removal of I-WLAN AVPs		
			0429	1	Reference correction		
			0433	-	Code allocation for 29.212		
			0418	-	MDT PLMN List		
			0422	1	Codes Allocation for PC2 Protocol		
ĺ			0423	4	Codes Allocation for PC4a Protoco		
Î	ĺ		0431	3	Allocation of values for Application ID, Command codes, AVP		İ
					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		
			0426	1	OFR-Flags AVP code		
]	1		0427	1	P-CSCF Restoration mechanism new error		

History

	Document history							
V12.6.0	October 2014	Publication						
V12.7.0	January 2015	Publication						