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> Diameter applications; 3GPP specific codes and identifiers (3GPP TS 29.230 version 11.8.0 Release 11)



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#### **Foreword**

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### 1 Scope

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

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

#### 2 References

[14]

[15]

[16]

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

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

Release as t	he 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: "3GPP system to Wireless Local Area Network (WLAN) interworking; Stage 3".
[7]	3GPP TS 29.109: "Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Stage 3".
[8]	3GPP TS 29.209: "Policy control over Gq interface".
[9]	IETF RFC 3588: "Diameter Base Protocol".
[10]	IETF RFC 3589: "Diameter Command Codes for Third Generation Partnership Project (3GPP) Release 5".
[11]	IANA"s Enterprise-Numbers: <a href="http://www.iana.org/assignments/enterprise-numbers">http://www.iana.org/assignments/enterprise-numbers</a>
[12]	IANA"s AAA parameters register: <a href="ftp://ftp.iana.org/assignments/aaa-parameters/">ftp://ftp.iana.org/assignments/aaa-parameters/</a>
[13]	3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".

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

System (OCS): Applications and interfaces".

Diameter protocol; Stage 3".

3GPP TS 32.296: "Telecommunication management; Charging management; Online Charging

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

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

#### 3 Definitions and abbreviations

#### 3.1 Definitions

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

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

#### 3.2 Abbreviations

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

AVP Attribute-Value-Pair
CR Change Request
IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force

LS Liaison Statement

# 4 Application identifiers

The Diameter applications are identified with the application identifiers as specified in the RFC 3588 [9]. There are two kind of applications: IETF standards track applications and vendor specific applications. All application identifiers are

assigned by IANA [12]. This chapter lists the application identifiers assigned by IANA to all 3GPP Diameter applications.

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

#### 4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

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

#### 5 Command codes

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

#### 5.1 Command codes allocated for 3GPP

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
300	User-Authorization-Request/-Answer	UAR/UAA	5611 15
301	Server-Assignment-Request/-Answer	SAR/SAA	
302	Location-Info-Request/-Answer	LIR/LIA	
303	Multimedia-Auth-Request/-Answer	MAR/MAA	29.229 [2]
304	Registration-Termination-Request/-	RTR/RTA	
	Answer		
305	Push-Profile-Request/-Answer	PPR/PPA	
306	User-Data-Request/-Answer	UDR/UDA	
307	Profile-Update-Request/-Answer	PUR/PUA	29.329 [4]
308	Subscribe-Notifications-Request/-Answer	SNR/SNA	29.329 [4]
309	Push-Notification-Request/-Answer	PNR/PNA	
310	Boostrapping-Info-Request/Answer	BIR/BIA	29.109 [7]
311	Message-Process-Request/Answer	MPR/MPA	29.140 [16]
312	GBAPush-Info-Request/Answer	GPR/GPI	29.109 [7]

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
8388620	Provide-Location-Request/Answer	PLR/PLA	20 472 [24]
8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]
8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]
8388635	Spending-Limit-Request/Answer	SLR/SLA	
8388636	Spending-Status-Notification-	SNR/SNA	29.219 [26]
	Request/Answer		
8388637	TDF-Session-Request/Answer	TSR/TSA	29.212 [19]
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	29.272 [21]
8388639	Device-Action-Request/Answer	DAR/DAA	29.368 [27]
8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]
8388643	Device-Trigger-Request/Answer	DTR/DTA	29.337 [29]
8388644	Delivery-Report-Request/Answer	DRR/DRA	29.337 [29]
8388645	MO-Forward-Short-Message	OFR/OFA	
	Request/Answer		
8388646	MT-Forward-Short-Message	TFR/TFA	
	Request/Answer		
8388647	Send-Routing-Info-for-SM-	SRR/SRA	29.338 [30]
	Request/Answer		
8388648	Alert-Service-Centre-Request/Answer	ALR/ALA	
8388649	Report-SM-Delivery-Status-	RDR/RDA	
	Request/Answer		
8388655	Trigger-Establishment-Request/Answer	TER/TEA	29.215 [30]

#### 6 Vendor identifier

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

#### 6.1 3GPP"s vendor identifier

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

#### 7 Attribute-Value-Pair codes

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

# 7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
102	3GPP-WLAN-QoS-Filter-Support	OctetString	1
Note:	The AVP codes from 1 to 255 are reserved for backwards compatibili	ty with 3GPP RADIUS Ve	ndor Specific
Attribu	ites (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	
301	Authentication-Information-SIM	OctetString	
302	Authorization -Information-SIM	OctetString	
303	WLAN-User-Data	Grouped	
304	Charging-Data	Grouped	
305	WLAN-Access	Enumerated	
306	WLAN- 3GPP-IP-Access	Enumerated	
	APN-Authorized	Grouped	
308	APN-Id	•	
309	APN-Barring-Type	Enumerated	20 224 [6]
	WLAN-Direct-IP-Access	Enumerated	29.234 [6]
311	Session-Request-Type	Enumerated	
	Routing-Policy	IPFilterRule	
	Max-Requested-Bandwidth	OctetString	
	Charging-Characteristics	Integer	1
	Charging-Nodes	Grouped	1
	Primary-OCS-Charging-Function-Name	DiameterIdentity	
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
	3GPP-AAA-Server-Name	DiameterIdentity	
	Maximum-Number-Accesses	Unsigned32	
	The AVP codes from 320 to 399 are reserved for TS 29.234	<del>-</del>	
	GBA-UserSecSettings	OctetString	
401	Transaction-Identifier	OctetString	
	NAF-Hostname	OctetString	-
	GAA-Service-Identifier	OctetString	
404	Key-ExpiryTime ME-Key-Material	Time OctetString	-
406	UICC-Key-Material	OctetString	-
	GBA_U-Awareness-Indicator	Enumerated	1
408	BootstrapInfoCreationTime	Time	
	GUSS-Timestamp	Time	
	GBA-Type	Enumerated	29.109 [7]
411	UE-Id	OctetString	=
412	UE-Id-Type UICC-App-Label	Enumerated OctetString	
	UICC-ME	Enumerated	1
	Requested-Key-Lifetime	Time	-
	Private-Identity-Request	Enumerated	
	GBA-Push-Info	OctetString	
	NAF-SA-Identifier	OctetString	
	Security-Feature-Request	OctetString	-
	Security-Feature-Response	OctetString	
	The AVP codes from 421 to 499 are reserved for TS 29.109		1
	Abort-Cause	Enumerated	-
	Access-Network-Charging-Address	Address	4
	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	_
	Flow-Description	IPFilterRule	_
508	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 Media-Component-Description	Unsigned32	
	Media-Component-Description  Media-Component-Number	Grouped Unsigned32	
	Media-Sub-Component AVP	Grouped	
	Media-Type	Enumerated	
	RR-Bandwidth	Unsigned32	
	RS-Bandwidth	Unsigned32	
	SIP-Forking-Indication	Enumerated	
	Codec-Data	OctetString	
	Service-URN	OctetString	
	Acceptable-Service-Info	Grouped	
	Service-Info-Status	Enumerated	
	MPS-Identifier	OctetString	
	AF-Signalling-Protocol	Enumerated	
	Sponsored-Connectivity-Data	Grouped	
531	Sponsor-Identity Sponsor-Identity	OctetString	
	Application-Service-Provider-Identity	OctetString	
	The AVP codes from 533 to 599 are reserved for TS 29.209, TS 29.21		
	Visited-Network-Identifier	OctetString	
	Public-Identity	UTF8String	
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	
	SIP-Authorization SIP-Authentication-Context	OctetString	
	SIP-Auth-Data-Item	OctetString Grouped	
	SIP-Item-Number	Unsigned32	
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
_	Reason-Info	UTF8String	
	Charging-Information	Grouped	
	Primary-Event-Charging-Function-Name	DiameterURI	00 000 101
	Secondary-Event-Charging-Function-Name	DiameterURI	29.229 [2]
	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
	User-Authorization-Type	Enumerated	
	User-Data-Already-Available	Enumerated	
	Confidentiality-Key	OctetString	
626	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
	Supported-Applications	Grouped	
	Associated-Identities	Grouped	
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
<b>039</b>	SCSCF-Restoration-Info	Grouped	

640		OctetString	
	Contact	OctetString	
	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	
646	Record-Route	OctetString	
647	Associated-Registered-Identities	Grouped	
648	Multiple-Registration-Indication	Enumerated	
	Restoration-Info	Grouped	
	Session-Priority	Enumerated	
	Identity-with-Emergency-Registration	Grouped	
	Priviledged-Sender-Indication	Enumerated	
	LIA-Flags	Unsigned32	
	The AVP codes from 654 to 699 are reserved for TS 29.229.	Orlaigheadz	
	User-Identity	Grouped	
	MSISDN	OctetString	
		OctetString	
	User-Data		
	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	
711	DSAI-Tag	OctetString	29.329 [4]
712	One-Time-Notification	Enumerated	
713	Requested-Nodes	Unsigned32	
	Serving-Node-Indication	Enumerated	
	Repository-Data-ID	Grouped	
	Sequence-Number	Unsigned32	
	Pre-paging-Supported	Enumerated	
	Local-Time-Zone-Indication	Enumerated	
	UDR-Flags	Unsigned32	
	Call-Reference-Info	Grouped	
	Call-Reference-Number	OctetString	
	AS-Number	OctetString	
	The AVP codes from 723 to 799 are reserved for TS 29.329.	OctetString	
note.	The AVP codes from 800 to 822 are reserved for TS 32.299.  Event-Type	Crouned	
		Grouped	
	SIP-Method	UTF8String	
	Event	UTF8String	
	Content-Type	UTF8String	
	Content-Length	Unsigned32	
	Content-Disposition	UTF8String	
	Role-of-Node	Enumerated	
	User-Session-Id	UTF8String	
	Calling-Party-Address	UTF8String	
	Called-Party-Address	UTF8String	
	Time-Stamps	Grouped	
	SIP-Request-Timestamp	Time	
	SIP-Response-Timestamp	Time	32.299 [5]
	Application-Server	UTF8String	• •
	Application-provided-called-party-address	UTF8String	
	Inter-Operator-Identifier	Grouped	
	Originating-IOI	UTF8String	
	Terminating-IOI	UTF8String	
	IMS-Charging-Identifier	UTF8String	
	SDP-Session-Description	UTF8String	
	SDP-Media-Component	Grouped	
	SDP-Media-Component SDP-Media-Name		
		UTF8String	
	SDP-Media-Description	UTF8String	
846	CG-Address	Address Address	
0.47	GGSN-Address		

		<u> </u>	
	Served-Party-IP-Address	Address	
	Authorized-QoS	UTF8String	
	Application-Server-Information	Grouped	
	Trunk-Group-Id	Grouped	
	Incoming-Trunk-Group-Id	UTF8String	
	Outgoing-Trunk-Group-Id	UTF8String	
854	Bearer-Service	OctetString	
855	Service-Id	UTF8String	
856	Associated-URI	UTF8String	
857	Charged-Party	UTF8String	
858	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-Trireshold	Unsigned32	
	Trigger-Type	Enumerated	
	Quota-Holding-Time	Unsigned32	
	Reporting-Reason	Enumerated	
	Service-Information	Grouped	
	PS-Information	Grouped	
	WLAN-Information	Grouped	
	IMS-Information		
		Grouped	
	MMS-Information	Grouped	
	LCS-Information	Grouped	
	PoC-Information	Grouped	
	MBMS-Information	Grouped	
	Quota-Consumption-Time	Unsigned32	
	Media-Initiator-Flag	Enumerated	
	PoC-Server-Role	Enumerated	
	PoC-Session-Type	Enumerated	
	Number-Of-Participants	Unsigned32	
	Originator-Address	Grouped	
	Participants-Involved	UTF8String	
	Expires	Unsigned32	
889	Message-Body	Grouped	
890	WAG-Address	Address	
	WAG-PLMN-Id	OctetString	
	WLAN-Radio-Container	Grouped	
	WLAN-Technology	Unsigned32	
	WLAN-UE-Local-IPAddress	Address	
	PDG-Address	Address	
	PDG-Charging-Id	Unsigned32	
	Address-Data	UTF8String	
	Address-Domain	Grouped	
	Address-Type	Enumerated	
- 500	,	Liidiiioidtod	
900	TMGI	OctectString	
	Required-MBMS-Bearer-Capabilities	UTF8String	
	MBMS-StartStop-Indication	Enumerated	
	MBMS-Service-Area	OctectString	
	MBMS-Service-Area MBMS-Session-Duration	Unsigned32	
	Alternative-APN	UTF8String	29.061 [13]
	MBMS-Service-Type	Enumerated	
	MBMS-2G-3G-Indicator	Enumerated	
	MBMS-Session-Identity	OctetString	
909		UTF8String	
	Additional-MBMS-Trace-Info	OctetString	
911	MBMS-Time-To-Data-Transfer	Unsigned32	

	MBMS-Session-Identity-Repetition-Number	Unsigned32	
	MBMS-Required-QoS	UTF8String	
914 I	MBMS-Counting-Information	Enumerated	
915	MBMS-User-Data-Mode-Indication	Enumerated	
916	MBMS-GGSN-Address	UTF8String	
917	MBMS-GGSN-IPv6-Address	UTF8String	
	MBMS-BMSC-SSM-IP-Address	UTF8String	
	MBMS-BMSC-SSM-IPv6-Address	UTF8String	
	MBMS-Flow-Identifier	OctetString	
	CN-IP-Multicast-Distribution	Enumerated	
	MBMS-HC-Indicator	Enumerated	
	MBMS-Access-Indicator	Enumerated	
	MBMS-GW-SSM-IP-Address	OctetString	
	MBMS-GW-SSM-IPv6-Address	OctetString	
	MBMS-BMSC-SSM-UDP-Port	OctetString	
	MBMS-GW-UDP-Port	OctetString	
		)	
	MBMS-GW-UDP-Port-Indicator	Enumerated	
	MBMS-Data-Transfer-Start	Unsigned64	
	MBMS-Data-Transfer-Stop	Unsigned64	
	The AVP codes from 929 to 999 are reserved for TS 29.061		
	Bearer-Usage	Enumerated	
	Charging-Rule-Install	Grouped	
	Charging-Rule-Remove	Grouped	
	Charging-Rule-Definition	Grouped	
	Charging-Rule-Base-Name	UTF8String	
	Charging-Rule-Name	OctetString	
	Event-Trigger	Enumerated	
	Metering-Method	Enumerated	
1008		Enumerated	
1009		Enumerated	
	Precedence	Unsigned32	
1011 I	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	
1019 I	PCC-Rule-Status	Enumerated	
1020	Bearer-Identifier	OctetString	
1021	Bearer-Operation	Enumerated	
1022	Access-Network-Charging-Identifier-Gx	Grouped	
	Bearer-Control-Mode	Enumerated	
1024 I	Network-Request-Support	Enumerated	29.212 [19]
	Guaranteed-Bitrate-DL	Unsigned32	1
	Guaranteed-Bitrate-UL	Unsigned32	
	IP-CAN-Type	Enumerated	
	QoS-Class-Identifier	Enumerated	
	QoS-Negotiation	Enumerated	
	QoS-Upgrade	Enumerated	
	Rule-Failure-Code	Enumerated	
	RAT-Type	Enumerated	
	Event-Report-Indication	Grouped	
	Allocation-Retention-Priority	Grouped	
	CoA-IP-Address	Address	
	Tunnel-Header-Filter	IPFilterRule	
	Tunnel-Header-Length	Unsigned32	
	Tunnel-Information	Grouped	
	Tunnel-Information  CoA-Information	Grouped	
	CoA-Information  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	
111/16	Priority-Level	Unsigned32	

[		
1047 Pre-emption-Capability	Enumerated	
1048 Pre-emption-Vulnerability	Enumerated	
1049 Default-EPS-Bearer-QoS	Grouped	
1050 AN-GW-Address	Address	
1051 QoS-Rule-Install	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	
1059 Packet-Filter-Content	IPFilterRule	
1060 Packet-Filter-Identifier	OctetString	
1061 Packet-Filter-Information	Grouped	
1062 Packet-Filter-Operation	Enumerated	
1063 Resource-Allocation-Notification	Enumerated	
1064 Session-Linking-Indicator	Enumerated	
1065 PDN-Connection-ID 1066 Monitoring-Key	OctetString OctetString	
1066 Monitoring-Key 1067 Usage-Monitoring-Information	Grouped	
1067 Osage-Monitoring-Information  1068 Usage-Monitoring-Level	Enumerated	
1069 Usage-Monitoring-Report	Enumerated	
1070 Usage-Monitoring-Support	Enumerated	
1071 CSG-Information-Reporting	Enumerated	
1071 C3G-Information-Reporting	Enumerated	
1073 Charging-Correlation-Indicator	Enumerated	
1074 QoS-Rule-Base-Name	UTF8String	
1075 Routing-Rule-Remove	Grouped	
1076 Routing-Rule-Definition	Grouped	
1077 Routing-Rule-Identifier	OctetString	
1078 Routing-Filter	Grouped	
1079 Routing-IP-Address	Address	
1080 Flow-Direction	Enumerated	
1081 Routing-Rule-Install	Grouped	
1085 Redirect-Information	Grouped	
1086 Redirect- Support	Enumerated	
1087 TDF-Information	Grouped	
1088 TDF-Application-Identifier	OctetString	
1089 TDF-Destination-Host	DiameterIdentity	
1090 TDF-Destination-Realm	DiameterIdentity	
1091 TDF-IP-address	Address	
1092 ADC-Rule-Install	Grouped	
1093 ADC-Rule-Remove	Grouped	
1094 ADC-Rule-Definition	Grouped	
1095 ADC-Rule-Base-Name	UTF8String	
1096 ADC-Rule-Name	OctetString	
1097 ADC-Rule-Report	Grouped	
1098 Application-Detection-Information	Grouped	
1099 PS-to-CS-Session-Continuity	Enumerated	
Note: The AVP codes from 1082 to 1084 are reserved for TS 29.212		
1100 Served-User-Identity	Groupe	
1101 VASP-ID	UTF8Str	
1102 VAS-ID	UTF8String	
1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address	Grouped	
1106 Result-Recipient-Address	Grouped	29.140 [16]
1107 Sequence-Number	Unsigned32	
1108 Recipient-Address	UTF8String	
1109 Routeing-Address	UTF8String	
1110 Originating-Interface 1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated Enumerated	
1113 Sender-Visibility		
	Enumerated	

	ervice-Key	UTF8String	
	illing-Information	UTF8String	
1116 S		Grouped	
	tatus-Code	UTF8String	
1118 S	tatus-Text	UTF8String	
	ne AVP codes from 1119 to 1199 are reserved for TS 29.140		
1200 D	omain-Name	UTF8String	
1201 R	ecipient-Address	Grouped	
1202 S	ubmission-Time	Time	
	M-Content-Type	Grouped	
1204 T	ype-Number	Enumerated	
	dditional-Type-Information	UTF8String	
	ontent-Size	Unsigned32	
	dditional-Content-Information	Grouped	
	ddressee-Type	Enumerated	
1209 P		Enumerated	
	lessage-ID	UTF8String	
	lessage-Type	Enumerated	
	lessage-Size	Unsigned32	
	lessage-Class	Grouped	
	lass-Identifier	Enumerated	
	oken-Text	UTF8String	
	elivery-Report-Requested	Enumerated	
	daptations	Enumerated	
1217 A		UTF8String	
	ux-Applic-Info	UTF8String	
	ontent-Class	Enumerated	
	RM-Content	Enumerated	
	ead-Reply-Report-Requested	Enumerated	
	edu-Kepiy-Keport-Kequesteu eply-Applic-ID	UTF8String	
	ile-Repair-Supported	Enumerated	
	IBMS-User-Service-Type		
	nit-Quota-Threshold	Enumerated	
		Unsigned32	
	DP-Address GSN-Address	Address	
		Address	00 000 [5]
	oC-Session-Id	UTF8String	32.299 [5]
	eferred-Location-Even-Type	UTF8String	
	CS-APN	UTF8String	
	CS-Client-Id	Grouped	
	CS-Client-Dialed-By-MS	UTF8String	
1234 L0	CS-Client-External-ID	UTF8String	
	CS-Client-Name	Grouped	
	CS-Data-Coding-Scheme	UTF8String	
	CS-Format-Indicator	Enumerated	
	CS-Name-String	UTF8String	
	CS-Requestor-Id	Grouped	
	CS-Requestor-Id-String	UTF8String	
	CS-Client-Type	Enumerated	
	ocation-Estimate	OctetString	
	ocation-Estimate-Type	Enumerated	
	ocation-Type	Grouped	
	ositioning-Data	UTF8String	
1246 W	/LAN-Session-Id	UTF8String	
	DP-Context-Type	Enumerated	
1248 M	MBox-Storage-Requested	Enumerated	
	ervice-Specific-Info	Grouped	
	alled-Asserted-Identity	UTF8String	
	equested-Party-Address	UTF8String	
	oC-User-Role	Grouped	
	oC-User-Role-IDs	UTF8String	
	oC-User-Role-info-Units	Enumerated	
	alk-Burst-Exchange	Grouped	
	ervice-Generic-Information	Grouped	
	ervice-Specific-Type	Unsigned32	
	vent-Charging-TimeStamp	Time	
O O   L	carging minocamp	11110	

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-Neportang	Time	
1270 Time-Quota-Mechanism		
	Grouped	
1271 Time-Quota-Type	Enumerated	
1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps	Grouped	
1274 SDP-Offer-Timestamp	Time	
1275 SDP-Answer-Timestamp	Time	
1276 AF-Correlation-Information	Grouped	
1277 PoC-Session-Initiation-type	Enumerated	
1278 Offline-Charging	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32 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	
1412 Immediate-Response-Preferred	Unsigned32	
1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	29.272 [21]
1417 Network-Access-Mode	Enumerated	-0.2.2 [21]
1418 HPLMN-ODB	Enumerated	
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
1426 Access-Restriction-Data	UTF8String	
1427 APN-OI-Replacement	_	
	UTF8String	
1428 All-APN-Configurations-Included-Indicator	Enumerated	
1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile	Grouped	
1432 VPLMN-Dynamic-Address-Allowed	Enumerated	
1433 STN-SR	OctetString	

1434	Alert-Reason	Enumerated
1435	AMBR	Grouped
1436	CSG-Subscription-Data	Grouped
437	CSG-ld	Unsigned32
	PDN-GW-Allocation-Type	Enumerated
	Expiration-Date	Time
	RAT-Frequency-Selection-Priority-ID	Unsigned32
	IDA-Flags	Unsigned32
	PUA-Flags	Unsigned32
	NOR-Flags	Unsigned32
	User-Id	UTF8String
	Equipment-Status	Enumerated
	Regional-Subscription-Zone-Code	OctetString
	RAND	OctetString
	XRES	OctetString
	AUTN	OctetString
	KASME	OctetString
	Reserved	Octetothing
	Trace-Collection-Entity	Address
452 453		OctetString
	SRES	OctetString
	Reserved	Octerating
		- Enumerated
	PDN-Type  Reaming Restricted Due To Unsupported Feature	Enumerated Enumerated
	Roaming-Restricted-Due-To-Unsupported-Feature Trace-Data	
		Grouped
	Trace-Reference	OctetString
	Reserved	<del>-</del>
	Reserved	
	Trace-Depth	Enumerated
	Trace-NE-Type-List	OctetString
	Trace-Interface-List	OctetString
	Trace-Event-List	OctetString
	OMC-ld	OctetString
	GPRS-Subscription-Data	Grouped
	Complete-Data-List-Included-Indicator	Enumerated
	PDP-Context	Grouped
	PDP-Type	OctetString
	3GPP2-MEID	OctetString
	Specific-APN-Info	Grouped
473	LCS-Info	Grouped
1474	GMLC-Number	OctetString
1475	LCS-PrivacyException	Grouped
	SS-Code	OctetString
	SS-Status	Grouped
	Notification-To-UE-User	Enumerated
1479	External-Client	Grouped
	Client-Identity	OctetString
	GMLC-Restriction	Enumerated
	PLMN-Client	Enumerated
	Service-Type	Grouped
	ServiceTypeIdentity	Unsigned32
	MO-LR	Grouped
	Teleservice-List	Grouped
	TS-Code	Enumerated
	Call-Barring-Info	Grouped
	SGSN-Number	OctetString
	IDR-Flags	Unsigned32
	ICS-Indicator	Enumerated
	IMS-Voice-Over-PS-Sessions-Supported	Enumerated
	Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated
	Last-UE-Activity-Time	Time
	EPS-User-State	Grouped
	EPS-Location-Information	Grouped
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1497	MME-User-State SGSN-User-State	Grouped Grouped

1499 User-State	Enumerated	
1500 Non-3GPP-User-Data	Grouped	
1501 Non-3GPP-IP-Access	Enumerated	
1502 Non-3GPP-IP-Access-APN	Enumerated	
1503 AN-Trusted	Enumerated	
1504 ANID	UTF8String	
1505 Trace-Info 1506 MIP-FA-RK	Grouped OctetString	
1500 MIP-FA-RK	Unsigned32	
1508 PPR-Flags	Unsigned32	
1509 WLAN-Identifier	Grouped	
1510 TWAN-Access-Info	Grouped	
1511 Access-Authorization-Flags	Unsigned32	
1512 TWAN-Default-APN-Context-Id	Unsigned32	29.273 [20]
1513 Reserved	- -	
1514 Reserved	-	
1515 Reserved	-	
1516 Full-Network-Name	OctetString	
1517 Short-Network-Name	OctetString	
1518 AAA-Failure-Indication	Unsigned32	
1519 Transport-Access-Type	Enumerated	
1520 DER-Flags	Unsigned32	
1521 DEA-Flags	Unsigned32	
1522 RAR-Flags	Unsigned32	
1523 DER-S6b-Flags	Unsigned32	
Note: The AVP codes from 1524 to 1599 are reserved for TS 29.273		
1600 MME-Location-Information	Grouped	
1601 SGSN-Location-Information	Grouped	
1602 E-UTRAN-Cell-Global-Identity	OctetString	
1603 Tracking-Area-Identity	OctetString	
1604 Cell-Global-Identity	OctetString	
1605 Routing-Area-Identity	OctetString OctetString	
1606 Location-Area-Identity 1607 Service-Area-Identity	OctetString	
1608 Geographical-Information	OctetString	
1609 Geodetic-Information	OctetString	
1610 Current-Location-Retrieved	Enumerated	
1611 Age-Of-Location-Information	Unsigned32	
1612 Active-APN	Grouped	
1613 SIPTO-Permission	Enumerated	
1614 Error-Diagnostic	Enumerated	
1615 UE-SRVCC-Capability	Enumerated	
1616 MPS-Priority	Unsigned32	
1617 VPLMN-LIPA-Allowed	Enumerated	
1618 LIPA-Permission	Enumerated	20 272 [24]
1619 Subscribed-Periodic-RAU-TAU-Timer	Unsigned32	29.272 [21]
1620 Ext-PDP-Type	OctetString	
1621 Ext-PDP-Address	Address	
1622 MDT-Configuration	Grouped	
1623 Job-Type	Enumerated	
1624 Area-Scope	Grouped	
1625 List-Of-Measurements	Unsigned32	
1626 Reporting-Trigger	Unsigned32	
1627 Report-Interval	Enumerated	
1628 Report-Amount	Enumerated	
1629 Event-ThresholdRSRP	Unsigned32	
1630 Event-ThresholdRSRQ	Unsigned32	
1631 Logging Duration	Enumerated	
1632 Logging-Duration 1633 Relay-Node-Indicator	Enumerated Enumerated	
1633 Relay-Node-Indicator 1634 MDT-User-Consent	Enumerated	
1635 PUR-Flags	Unsigned32	
1636 Subscribed-VSRVCC	Enumerated	
1637 Equivalent-PLMN-List	Grouped	
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1638   U.R.Filags			
1640   UVA-Flags	1638 CLR-Flags	Unsigned32	
1641   VPLMN-CSG-Subscription-Data   Grouped   H242   Time-Zone   UTF8String   1643   AMSISDN   Octststring   1644   Reserved			
1642   Time-Zone			
1643   AMSISON	1641 VPLMN-CSG-Subscription-Data		
1644 Reserved			
1645   MME-Number-for-MT-SMS	1643 A-MSISDN	OctetString	
1646  Reserved		-	
1647   Reserved	1645 MME-Number-for-MT-SMS	OctetString	
1648   SMS-Register-Request		-	
1649   Local+Time-Zone		-	
		Enumerated	
1661   GMLC-Info   Grouped	1649 Local-Time-Zone	Grouped	
DiameterIdentity	1650 Daylight-Saving-Time	Enumerated	
DiameterIdentity		Grouped	
1655   Measurement-Period-LTE		DiameterIdentity	
1655   Measurement-Period-UMTS   Enumerated   1656   Measurement-Period-UMTS   Enumerated   1657   Collection-Period-RRM-LTE   Enumerated   1658   Collection-Period-RRM-UMTS   Enumerated   1659   Positioning-Method   OctetString   1660   Event-Threshold-Event-IF   Integer32   1661   Event-Threshold-Event-II   Integer32   1662   Event-Threshold-Event-II   Integer32   1663   Restoration-Priority   Unsigned32   1664   Reserved     1665   Reserved     1665   Reserved     1666   Reserved     1667   Reserved     1668   Reserved     1669   Reserved     1669   Reserved     1660   Substantion-Priority   Unsigned32   1660   Event-Threshold-Event-II   Integer32   1661   Event-Threshold-Event-II   Unsigned32   1662   Event-Threshold-Event-II   Unsigned32   1663   Restoration-Priority   Unsigned32   1664   Reserved     1665   Reserved     1665   Reserved     1666   Reserved     1667   Grouped     1668   Reserved     1669   Unsigned32   Unsigned32   1669   Unsigned32   Unsigned32   Unsigned32   1660   Interface-Text   UTF8String   UTF8String   1661   Unsigned32   Unsigned32   Unsigned32   1662   Unsigned32   Unsigned32   Unsigned32   1663   Reserved   Unsigned32   Unsigned32   Unsigned32   1664   Received-Address   Grouped   Unsigned32   1665   Grouped   Unsigned32   Unsigned32   Unsigned32   1666   Unsigned32   Unsigned32   Unsigned32   Unsigned32   1667   Unsigned32   Unsigned32   Unsigned32   Unsigned32   1668   Received-Address   Grouped   Unsigned32	1653 GMLC-Realm	DiameterIdentity	
1656   Measurement-Period-UMTS		Unsigned32	
1657   Collection-Period-RRM-LTE		Enumerated	
1658   Collection-Period-RRM-UMTS	1656 Measurement-Period-UMTS	Enumerated	
Resp			
1660   Measurement-Quantity			
1661 Event-Threshold-Event-1F         Integer32           1662 Event-Threshold-Event-1I         Integer32           1663 Restoration-Priority         Unsigned32           1664 Reserved         -           1665 Reserved         -           1665 Reserved         -           Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272.           2000 SMS-Information         Grouped           2001 Data-Coding-Scheme         Integer32           2002 Destination-Interface         Grouped           2003 Interface-Id         UTF8String           2004 Interface-Text         UTF8String           2005 Interface-Text         UTF8String           2006 Interface-Type         Enumerated           2007 SM-Message-Type         Enumerated           2008 Originating-SCCP-Address         Address           2009 Originator-Interface         Grouped           2011 Reply-Path-Requested         Enumerated           2012 SM-Discharge-Time         Time           2013 SM-Protocol-ID         OctetString           2014 SM-Status         OctetString           2015 SMS-Node         Enumerated           2016 SMS-Node         Enumerated           2017 SMSC-Address         Address           2018 Client-A			
Integer32			
1663 Reserved         -           1664 Reserved         -           1665 Reserved         -           Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272.           2000 SMS-Information         Grouped           2001 Data-Coding-Scheme         Integer32           2002 Destination-Interface         Grouped           2003 Interface-Ired         UTF8String           2004 Interface-Port         UTF8String           2005 Interface-Text         UTF8String           2006 Interface-Text         UTF8String           2007 SM-Message-Type         Enumerated           2009 Origination-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-Vode         Enumerated           2017 SMSC-Address         Address           2018 SMS-Node         Enumerated           2019 Number-Or-Messages-Sent         Unsigned32           2010 Low-Balance-Indication         Enumerated           2021 Remaining-Balance         Grouped           2022 Recipent-Type </td <td></td> <td></td> <td></td>			
1664   Reserved   -			
Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272.	1663 Restoration-Priority	Unsigned32	
Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272.	1664 Reserved		
2000   SMS-Information   Grouped   Integer32   2002   Destination-Interface   Grouped   2003   Interface-Id   UTF8String   UTF8String   2004   Interface-Port   UTF8String   UTF8String   2005   Interface-Text   UTF8String   2006   Interface-Text   UTF8String   2006   Interface-Text   UTF8String   2006   Interface-Type   Enumerated   2007   SM-Message-Type   Enumerated   2008   Originating-SCCP-Address   Address   Address   2009   Originator-Interface   Grouped   2010   Recipient-SCCP-Address   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   Address   Address   Address   2018   Client-Address   Address   Address   Address   2019   Number-of-Messages-Sent   Unsigned32   2020   Low-Balance-Indication   Enumerated   Enumerated   2021   Remaining-Balance   Grouped   2022   Refund-Information   UTF8String   2024   Remaining-Balance   Grouped   2025   PoC-Event-Type   Enumerated   2026   Recipient-Info   Grouped   2027   Originator-Received-Address   Grouped   2028   Recipient-Received-Address   Grouped   2029   2020   2020   20		-	
Data-Coding-Scheme			
Destination-Interface   Grouped   UTF8String   UTF8String   2004   Interface-Id   UTF8String   UTF8String   2005   Interface-Text   UTF8String   2005   Interface-Text   UTF8String   2006   Interface-Type   Enumerated   2007   SM-Message-Type   Enumerated   2008   Originating-SCCP-Address   Address   Address   2009   Originator-Interface   Grouped   2010   Recipient-SCCP-Address   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   Address   Address   2018   Client-Address   Address   Address   Address   Address   2019   Number-of-Messages-Sent   Unsigned32   2020   Low-Balance-Indication   Enumerated   2021   Remaining-Balance   Grouped   Grouped   2022   Refund-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   2020   MMTel-Information   Grouped   2021   Grouped   2023   MMTel-Service-Type   Unsigned32   2033   MMTel-Service-Type   Unsigned32   2033   MMTel-Service-Type   Unsigned32   2033   Number-Of-Diversions   Unsigned32   2034   Number-Of-Diversions   Unsigned32   2034   Number-Of-Diversions   Unsigned32   2034   Number-Of-Diversions   Unsigned32   2034   2034   Number-Of-Diversions   Unsigned32   2034   2034   Number-Of-Diversions   Unsigned32   2035   2034			
2003   Interface-Id			
Description			
2005   Interface-Text			
2006   Interface-Type	2004 Interface-Port		
2007 SM-Message-Type		UTF8String	
2008   Originating-SCCP-Address   Address   Grouped		Enumerated	
2009   Originator-Interface   Grouped   Address   Address   2011   Reply-Path-Requested   Enumerated   Enumerated   2012   SM-Discharge-Time   Time   Time   2013   SM-Protocol-ID   OctetString   2014   SM-Status   OctetString   2015   SM-User-Data-Header   OctetString   2016   SMS-Node   Enumerated   2017   SMS-Node   Enumerated   2018   Client-Address   Address   Address   Address   Address   Address   Address   2018   Client-Address   Address   Address   Address   Address   Address   2018   Client-Address   Address			
Recipient-SCCP-Address			
Reply-Path-Requested			
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           2027 Originator-Received-Address         Grouped           2028 Recipient-Info         Grouped           2029 SM-Service-Type         Enumerated           2030 MMTel-Information         Grouped           2031 MMTel-Sservice-Type         Unsigned32           2033 Subscriber-Role         Enumerated           2034 Number-Of-Diversions         Unsigned32			
2013 SM-Protocol-ID			
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           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			
2015SM-User-Data-HeaderOctetString2016SMS-NodeEnumerated2017SMSC-AddressAddress2018Client-AddressAddress2019Number-of-Messages-SentUnsigned322020Low-Balance-IndicationEnumerated2021Remaining-BalanceGrouped2022Refund-InformationOctetString2023Carrier-Select-Routing-InformationUTF8String2024Number-Portability-Routing-InformationUTF8String2025PoC-Event-TypeEnumerated2026Recipient-InfoGrouped2027Originator-Received-AddressGrouped2028Recipient-Received-AddressGrouped2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031MMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2016SMS-NodeEnumerated2017SMSC-AddressAddress2018Client-AddressAddress2019Number-of-Messages-SentUnsigned322020Low-Balance-IndicationEnumerated2021Remaining-BalanceGrouped2022Refund-InformationOctetString2023Carrier-Select-Routing-InformationUTF8String2024Number-Portability-Routing-InformationUTF8String2025PoC-Event-TypeEnumerated2026Recipient-InfoGrouped2027Originator-Received-AddressGrouped2028Recipient-Received-AddressGrouped2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031MMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2017 SMSC-Address 2018 Client-Address 2019 Number-of-Messages-Sent 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information 2025 PoC-Event-Type 2026 Recipient-Info 2027 Originator-Received-Address 2028 Recipient-Received-Address 2029 SM-Service-Type 2029 SM-Service-Type 2020 SM-Service-Type 2021 MMTel-Information 2023 MMTel-Information 2024 Recipient-Received-Address 2025 SM-Service-Type 2026 Recipient-Received-Address 2027 Originator-Received-Address 2028 Recipient-Received-Address 2029 SM-Service-Type 2029 SM-Service-Type 2030 MMTel-Information 2031 MMTel-Sservice-Type 2032 Service-Mode 2033 Subscriber-Role 2034 Number-Of-Diversions 2034 Number-Of-Diversions			
2018 Client-Address 2019 Number-of-Messages-Sent 2020 Low-Balance-Indication 2021 Remaining-Balance 2022 Refund-Information 2023 Carrier-Select-Routing-Information 2024 Number-Portability-Routing-Information 2025 PoC-Event-Type 2026 Recipient-Info 2027 Originator-Received-Address 2028 Recipient-Received-Address 2029 SM-Service-Type 2020 SM-Service-Type 2021 MMTel-Information 2022 Grouped 2023 Service-Mode 2023 Service-Mode 2024 Unsigned32 2025 Service-Mode 2026 Recipier-Role 2027 Unsigned32 2028 Recipier-Role 2029 Service-Role			
2019 Number-of-Messages-Sent  2019 Number-of-Messages-Sent  2020 Low-Balance-Indication  2021 Remaining-Balance  2022 Refund-Information  2023 Carrier-Select-Routing-Information  2024 Number-Portability-Routing-Information  2025 PoC-Event-Type  2026 Recipient-Info  2027 Originator-Received-Address  2028 Recipient-Received-Address  2029 SM-Service-Type  2020 SM-Service-Type  2021 MMTel-Information  2022 Enumerated  2023 MMTel-Information  2024 Unsigned32  2025 Service-Mode  2026 Recipient-Role  2027 Originator-Received-Address  2028 Enumerated  2029 SM-Service-Type  2029 SM-Service-Type  2020 Unsigned32  2021 Unsigned32  2022 Service-Mode  2023 Number-Of-Diversions			32,299 [5]
2020 Low-Balance-IndicationEnumerated2021 Remaining-BalanceGrouped2022 Refund-InformationOctetString2023 Carrier-Select-Routing-InformationUTF8String2024 Number-Portability-Routing-InformationUTF8String2025 PoC-Event-TypeEnumerated2026 Recipient-InfoGrouped2027 Originator-Received-AddressGrouped2028 Recipient-Received-AddressGrouped2029 SM-Service-TypeEnumerated2030 MMTel-InformationGrouped2031 MMTel-Sservice-TypeUnsigned322032 Service-ModeUnsigned322033 Subscriber-RoleEnumerated2034 Number-Of-DiversionsUnsigned32			J00 [0]
2021Remaining-BalanceGrouped2022Refund-InformationOctetString2023Carrier-Select-Routing-InformationUTF8String2024Number-Portability-Routing-InformationUTF8String2025PoC-Event-TypeEnumerated2026Recipient-InfoGrouped2027Originator-Received-AddressGrouped2028Recipient-Received-AddressGrouped2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031IMMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2022Refund-InformationOctetString2023Carrier-Select-Routing-InformationUTF8String2024Number-Portability-Routing-InformationUTF8String2025PoC-Event-TypeEnumerated2026Recipient-InfoGrouped2027Originator-Received-AddressGrouped2028Recipient-Received-AddressGrouped2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031MMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2023Carrier-Select-Routing-InformationUTF8String2024Number-Portability-Routing-InformationUTF8String2025PoC-Event-TypeEnumerated2026Recipient-InfoGrouped2027Originator-Received-AddressGrouped2028Recipient-Received-AddressGrouped2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031MMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2024Number-Portability-Routing-InformationUTF8String2025PoC-Event-TypeEnumerated2026Recipient-InfoGrouped2027Originator-Received-AddressGrouped2028Recipient-Received-AddressGrouped2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031MMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2025PoC-Event-TypeEnumerated2026Recipient-InfoGrouped2027Originator-Received-AddressGrouped2028Recipient-Received-AddressGrouped2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031IMMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2026Recipient-InfoGrouped2027Originator-Received-AddressGrouped2028Recipient-Received-AddressGrouped2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031IMMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2027 Originator-Received-AddressGrouped2028 Recipient-Received-AddressGrouped2029 SM-Service-TypeEnumerated2030 MMTel-InformationGrouped2031 MMTel-Sservice-TypeUnsigned322032 Service-ModeUnsigned322033 Subscriber-RoleEnumerated2034 Number-Of-DiversionsUnsigned32			
2028Recipient-Received-AddressGrouped2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031MMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031MMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2030MMTel-InformationGrouped2031MMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2031 MMTel-Sservice-TypeUnsigned322032 Service-ModeUnsigned322033 Subscriber-RoleEnumerated2034 Number-Of-DiversionsUnsigned32			
2032 Service-ModeUnsigned322033 Subscriber-RoleEnumerated2034 Number-Of-DiversionsUnsigned32			
2033 Subscriber-RoleEnumerated2034 Number-Of-DiversionsUnsigned32			
2034 Number-Of-Diversions Unsigned32			
2035 Associated-Party-Address UTF8String			
	2035   Associated-Party-Address	UTF8String	

2036 SDP-Type	Enumerated	
2037 Change-Condition	Integer32	
2038 Change-Time	Time	
2039 Diagnostics	Integer32	
2040 Service-Data-Container	Grouped	
2041 Start-Time	Time	
2042 Stop-Time	Time	
	Time	
2043 Time-First-Usage		
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	
2060 Tariff-Information 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	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299		
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Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299		
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved	-	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type	- UTF8String Enumerated	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID	UTF8String Enumerated Unsigned32	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status	- UTF8String Enumerated	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved	UTF8String Enumerated Unsigned32 UTF8String	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved	UTF8String Enumerated Unsigned32 UTF8String	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved	UTF8String Enumerated Unsigned32 UTF8String	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved	UTF8String Enumerated Unsigned32 UTF8String	32 299 [5]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved	UTF8String Enumerated Unsigned32 UTF8String	32.299 [5]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2110 IM-Information	UTF8String Enumerated Unsigned32 UTF8String Grouped	32.299 [5]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded	UTF8String Enumerated Unsigned32 UTF8String Grouped Unsigned32	32.299 [5]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent	UTF8String Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32	32.299 [5]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Exploded	- UTF8String Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32	32.299 [5]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Exploded 2113 Total-Number-Of-Messages-Sent	- UTF8String Enumerated Unsigned32 UTF8String	32.299 [5]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Exploded 2113 Total-Number-Of-Messages-Sent 2115 DCD-Information	- UTF8String Enumerated Unsigned32 UTF8String	32.299 [5]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID	- UTF8String Enumerated Unsigned32 UTF8String	32.299 [5]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2110 Im-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Exploded 2113 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID	- UTF8String Enumerated Unsigned32 UTF8String	32.299 [5]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2110 Im-Information 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Exploded 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code	- UTF8String Enumerated Unsigned32 UTF8String	32.299 [5]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2110 IM-Information 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299	- UTF8String Enumerated Unsigned32 UTF8String	32.299 [5]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info	- UTF8String Enumerated Unsigned32 UTF8String	32.299 [5]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info	- UTF8String Enumerated Unsigned32 UTF8String	32.299 [5]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Sent 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Inforcement-Info 2202 Subsession-Id	- UTF8String Enumerated Unsigned32 UTF8String	32.299 [5]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Dereation	- UTF8String Enumerated Unsigned32 UTF8String	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Deration 2204 Multiple-BBERF-Action	- UTF8String Enumerated Unsigned32 UTF8String	32.299 [5] 29.215 [22]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Dereation	- UTF8String Enumerated Unsigned32 UTF8String	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Deration 2204 Multiple-BBERF-Action	- UTF8String Enumerated Unsigned32 UTF8String	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Deration 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix	- UTF8String Enumerated Unsigned32 UTF8String	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment	UTF8String Enumerated Unsigned32 UTF8String  Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated Grouped UTF8String Enumerated Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Sent 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Decision-Info 2202 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address	UTF8String Enumerated Unsigned32 UTF8String  Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated  Grouped UTF8String Enumerated  Grouped Grouped Grouped Grouped Unsigned32 Enumerated  Enumerated	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100   reserved 2101   Application-Server-ID 2102   Application-Service-Type 2103   Application-Session-ID 2104   Delivery-Status 2105   reserved 2106   reserved 2107   reserved 2108   reserved 2109   reserved 2110   IM-Information 2111   Number-Of-Messages-Successfully-Exploded 2112   Number-Of-Messages-Successfully-Sent 2113   Total-Number-Of-Messages-Exploded 2114   Total-Number-Of-Messages-Sent 2115   DCD-Information 2116   Content-ID 2117   Content-ID 2118   Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200   Subsession-Decision-Info 2201   Subsession-Id 2202   Subsession-Id 2203   Subsession-Operation 2204   Multiple-BBERF-Action 2205   UE-Local-IPv6-Prefix 2206   DRA-Deployment 2207   PCRF-Address 2208   DRA-Binding Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215	UTF8String Enumerated Unsigned32 UTF8String  Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated  Grouped UTF8String Enumerated  Grouped Grouped Grouped Grouped Unsigned32 Enumerated  Enumerated	29.215 [22]
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299 2100 reserved 2101 Application-Server-ID 2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address 2208 DRA-Binding	UTF8String Enumerated Unsigned32 UTF8String  Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated  Grouped UTF8String Enumerated  Grouped Grouped Grouped Grouped Unsigned32 Enumerated  Enumerated	

2002   Online-Changing-Plag   Enumerated   Collecting	2302 SIP-Response-Timestamp-Fraction	Unsigned22	
2305   Real-Time-Tariff-Information   Grouped		Unsigned32	
2305   Real-Time-Tarift-Information			
2307   MSM GW-Address			
2303   MSH Junuhenticated-Flag			
2308   Account-Epiration   Time			
2303   Account-Expiration			
2311   AoC-Service			
2311   AoC. Service			
2313   AOC-Service-Type			
2313   AOC-Service-Type			
2314   AoC-Subscription-Information			
2316   Reserved			
2316   Reserved			
2316   CSG-Access-Mode		Unsigned32	
2319   User-CSG-Information   Grouped			
19320   Outgoing-Session-Id			
19321   Initial-IMS-Charging-Identifier   UTF8String   2322   MS-Emergency-Indicator   Enumerated   Note: The AVP codes from 2323 to 2399 are reserved for TS 32.299			
International Content			
Note: The AVP codes from 2323 to 2399 are reserved for TS 32.299			
Auton   March   Marc		Enumerated	
2401   Serving-Node		T	
2402   MSC-Number   DiameterIdentity			
2404   LCS-Capabilities-Sets			
2404   CS-Capabilities-Sets			
2406   Additional-Serving-Node		Ŭ	
Additional-Serving-Node			29.173 [25]
Address   Address   DiameterIdentity			
2408   MME-Realm   DiameterIdentity			
Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173	2407 PPR-Address	Address	
Enumerated   Enumerated   Grouped   Enumerated   Grouped   ES02   LCS-EPS-Client-Name   Grouped   Es020   LCS-Requestor-Name   Grouped   Es030   LCS-Priority   Unsigned32   Grouped   Es050   Horizontal-Accuracy   Unsigned32   Es050   Horizontal-Accuracy   Unsigned32   Es050   Vertical-Accuracy   Unsigned32   Enumerated   Enumerated   Enumerated   Es050   Vertical-Requested   Enumerated   Enumerated   Es050   Vertical-Requested   Es050   Vertical-Requested   Essonated   Unsigned32   Es050   Vertical-Requested   Essonated   Unsigned32   Es0510   Vertical-Requested   Unsigned32   Es0511   LCS-Codeword   UTF8String   Essonated   Unsigned32   Es0512   LCS-Privacy-Check   Essonated   Unsigned32   Es0513   Vertical-Representation   Vertical-Representation		DiameterIdentity	
2501   LCS-EPS-Client-Name   Grouped   2502   LCS-Requestor-Name   Grouped   2503   LCS-Priority   Unsigned32   2504   LCS-QoS   Grouped   2505   Horizontal-Accuracy   Unsigned32   2506   Vertical-Accuracy   Unsigned32   2507   Vertical-Requested   Enumerated   2508   Velocity-Requested   Enumerated   2509   Response-Time   Enumerated   2509   Response-Time   Enumerated   2510   Supported-GAD-Shapes   Unsigned32   2511   LCS-Codeword   UTF8String   2512   LCS-Privacy-Check   Enumerated   2513   Accuracy-Fulfilment-Indicator   Enumerated   2514   Age-Of-Location-Estimate   Unsigned32   2515   Velocity-Estimate   OctetString   2516   EUTRAN-Positioning-Data   OctetString   2517   ECG    OctetString   2518   Location-Event   Enumerated   2520   LCS-Service-Type-ID   Unsigned32   2521   LCS-Privacy-Check-Non-Session   Grouped   2522   LCS-Privacy-Check-Session   Grouped   2523   LCS-Privacy-Check-Session   Grouped   2523   LCS-Privacy-Check-Session   Grouped   2524   LCS-Privacy-Check-Session   Grouped   2525   LCS-Privacy-Check-Session   Grouped   2526   LCS-Privacy-Check-Session   Grouped   2527   LCS-Privacy-Check-Session   Grouped   2528   LCS-Privacy-Check-Session   Grouped   2529   LCS-Privacy-Check-Session   Grouped   2520   LCS-Privacy-Check-Session   Grouped   2521   LCS-Privacy-Check-Session   Grouped   2522   LCS-Privacy-Check-Session   Grouped   2523   LCS-Privacy-Check-Session   Grouped   2524   LCS-Privacy-Check-Session   Grouped   2525   LCS-Privacy-Check-Session   Grouped   2526   LCS-Privacy-Check-Session   Grouped   2527   LCS-Privacy-Check-Session   Grouped   2528   LCS-Privacy-Check-Session   Grouped   2529   LCS-Privacy-Check-Session   Grouped   2520   LCS-Privacy-Check-Session   Grouped   2521   LCS-Privacy-Check-Session   Grouped   2522   LCS-Privacy-Check-Session   Grouped   2523   LCS-QoS-Class   Enumerated   2524   LCS-Privacy-Check-Session   Grouped   2525   LCS-Privacy-Check-Session   Grouped   2526   LCS-Privacy-Check-Session   Grouped   2527   LCS-Privacy-Check-Session   Grouped   25	Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173		
2502   LCS-Requestor-Name   Grouped	2500 Location-Type	Enumerated	
2503   LCS-Priority   Unsigned32   2504   LCS-QoS   Grouped   CS-QoS   Unsigned32   2506   Vertical-Accuracy   Unsigned32   2507   Vertical-Accuracy   Unsigned32   2507   Vertical-Accuracy   Unsigned32   2508   Velocity-Requested   Enumerated   Enumerated   2509   Response-Time   Enumerated   2510   Supported-GAD-Shapes   Unsigned32   2511   LCS-Codeword   UTF8String   2512   LCS-Privacy-Check   Enumerated   2513   Accuracy-Fulfilment-Indicator   Enumerated   2514   Age-Of-Location-Estimate   Unsigned32   2515   Velocity-Estimate   Unsigned32   2516   EUTRAN-Positioning-Data   OctetString   2516   EUTRAN-Positioning-Data   OctetString   2518   Location-Event   Enumerated   2520   LCS-Service-Type-ID   Unsigned32   2521   LCS-Privacy-Check-Non-Session   Grouped   2522   LCS-Privacy-Check-Session   Grouped   2523   LCS-QoS-Class   Enumerated   2524   LCS-Privacy-Check-Response   2525   LCS-Privacy-Check-Response   2525   LCS-Privacy-Check-Response   2525   LCS-QoS-Class   2525   LCS-QoS-Class   2	2501 LCS-EPS-Client-Name	Grouped	
2503   LCS-Priority   Unsigned32   2504   LCS-QoS   Grouped   CS-QoS   Unsigned32   2506   Vertical-Accuracy   Unsigned32   2507   Vertical-Accuracy   Unsigned32   2507   Vertical-Accuracy   Unsigned32   2508   Velocity-Requested   Enumerated   Enumerated   2509   Response-Time   Enumerated   2510   Supported-GAD-Shapes   Unsigned32   2511   LCS-Codeword   UTF8String   2512   LCS-Privacy-Check   Enumerated   2513   Accuracy-Fulfilment-Indicator   Enumerated   2514   Age-Of-Location-Estimate   Unsigned32   2515   Velocity-Estimate   Unsigned32   2516   EUTRAN-Positioning-Data   OctetString   2516   EUTRAN-Positioning-Data   OctetString   2518   Location-Event   Enumerated   2520   LCS-Service-Type-ID   Unsigned32   2521   LCS-Privacy-Check-Non-Session   Grouped   2522   LCS-Privacy-Check-Session   Grouped   2523   LCS-QoS-Class   Enumerated   2524   LCS-Privacy-Check-Response   2525   LCS-Privacy-Check-Response   2525   LCS-Privacy-Check-Response   2525   LCS-QoS-Class   2525   LCS-QoS-Class   2	2502 LCS-Requestor-Name	Grouped	
2504   LCS-QoS   Grouped   2505   Horizontal-Accuracy   Unsigned32   2506   Vertical-Accuracy   Unsigned32   2507   Vertical-Requested   Enumerated   2508   Velocity-Requested   Enumerated   2509   Response-Time   Enumerated   2509   Response-Time   Enumerated   2510   Supported-GAD-Shapes   Unsigned32   2511   LCS-Codeword   UTF8String   2512   LCS-Privacy-Check   Enumerated   2513   Accuracy-Fulfilment-Indicator   Enumerated   2514   Age-Of-Location-Estimate   Unsigned32   2515   Velocity-Estimate   Unsigned32   2516   EUTRAN-Positioning-Data   OctetString   2516   EUTRAN-Positioning-Data   OctetString   2519   Pseudonym-Indicator   Enumerated   2519   Pseudonym-Indicator   Enumerated   2519   Pseudonym-Indicator   Enumerated   2520   LCS-Service-Type-ID   Unsigned32   2521   LCS-Privacy-Check-Non-Session   Grouped   2522   LCS-Privacy-Check-Session   Grouped   2523   LCS-QoS-Class   Enumerated   Note: The AVP codes from 2524 to 2599 are reserved   -		Unsigned32	
2506   Vertical-Accuracy   Unsigned32   2507   Vertical-Requested   Enumerated   2508   Velocity-Requested   Enumerated   2509   Response-Time   Enumerated   2510   Supported-GAD-Shapes   Unsigned32   Unsigned32   2511   LCS-Codeword   UTF8String   2512   LCS-Privacy-Check   Enumerated   2513   Accuracy-Fulfilment-Indicator   Enumerated   2514   Age-Of-Location-Estimate   Unsigned32   2515   Velocity-Estimate   Unsigned32   2515   Velocity-Estimate   OctetString   2516   EUTRAN-Positioning-Data   OctetString   2517   ECGI   OctetString   2518   Location-Event   Enumerated   2519   Pseudonym-Indicator   Enumerated   2519   Pseudonym-Indicator   Enumerated   2520   LCS-Privacy-Check-Non-Session   Grouped   2521   LCS-Privacy-Check-Non-Session   Grouped   2522   LCS-Privacy-Check-Session   Grouped   2523   LCS-QoS-Class   Enumerated   Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172   2600   reserved   UTF8String   2602   Low-Priority-Indicator   Enumerated   2603   IP-Realm-Default-Indicator   Enumerated   2605   Transcoder-Inserted-Indicator   Enumerated   2605   Transcoder-Inserted-Indicator   Enumerated   Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299   Source	2504 LCS-QoS	Grouped	
2506   Vertical-Accuracy   Unsigned32   2507   Vertical-Requested   Enumerated   2508   Velocity-Requested   Enumerated   2509   Response-Time   Enumerated   2510   Supported-GAD-Shapes   Unsigned32   Unsigned32   2511   LCS-Codeword   UTF8String   2512   LCS-Privacy-Check   Enumerated   2513   Accuracy-Fulfilment-Indicator   Enumerated   2514   Age-Of-Location-Estimate   Unsigned32   2515   Velocity-Estimate   Unsigned32   2515   Velocity-Estimate   OctetString   2516   EUTRAN-Positioning-Data   OctetString   2517   ECGI   OctetString   2518   Location-Event   Enumerated   2519   Pseudonym-Indicator   Enumerated   2519   Pseudonym-Indicator   Enumerated   2520   LCS-Privacy-Check-Non-Session   Grouped   2521   LCS-Privacy-Check-Non-Session   Grouped   2522   LCS-Privacy-Check-Session   Grouped   2523   LCS-QoS-Class   Enumerated   Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172   2600   reserved   UTF8String   2602   Low-Priority-Indicator   Enumerated   2603   IP-Realm-Default-Indicator   Enumerated   2605   Transcoder-Inserted-Indicator   Enumerated   2605   Transcoder-Inserted-Indicator   Enumerated   Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299   Source	2505 Horizontal-Accuracy	Unsigned32	
2507   Vertical-Requested	2506 Vertical-Accuracy		
2508   Velocity-Requested   Enumerated   2509   Response-Time   Enumerated   2510   Supported-GAD-Shapes   Unsigned32   UTF8String   2511   LCS-Codeword   UTF8String   2512   LCS-Privacy-Check   Enumerated   2513   Accuracy-Fulfilment-Indicator   Enumerated   2514   Age-Of-Location-Estimate   Unsigned32   2515   Velocity-Estimate   OctetString   2516   EUTRAN-Positioning-Data   OctetString   2517   ECGI   OctetString   2518   Location-Event   Enumerated   2519   Pseudonym-Indicator   Enumerated   2519   Pseudonym-Indicator   Enumerated   2520   LCS-Privacy-Check-Non-Session   Grouped   2521   LCS-Privacy-Check-Non-Session   Grouped   2522   LCS-Privacy-Check-Session   Grouped   2523   LCS-QoS-Class   Enumerated   Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172   2600   reserved   Code   ImS-Application-Reference-Identifier   UTF8String   2602   Low-Priority-Indicator   Enumerated   2603   IP-Realm-Default-Indicator   Enumerated   2604   Local-GW-Inserted-Indicator   Enumerated   2605   Transcoder-Inserted-Indicator   Enumerated   Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299   Enumerated   Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299   Enumerated   Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299   Enumerated   Enumerated   Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299   Enumerated   Enumerated   Enumerated   Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299   Enumerated   Enumerated   Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299   Enumerated   Enumerated   Enumerated   Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299   Enumerated   Enume			
2509		•	
2510   Supported-GAD-Shapes   Unsigned32     2511   LCS-Codeword   UTF8String     2512   LCS-Privacy-Check   Enumerated     2513   Accuracy-Fulfilment-Indicator   Enumerated     2514   Age-Of-Location-Estimate   Unsigned32     2515   Velocity-Estimate   OctetString     2516   EUTRAN-Positioning-Data   OctetString     2517   ECGI   OctetString     2518   Location-Event   Enumerated     2519   Pseudonym-Indicator   Enumerated     2510   LCS-Privacy-Check-Non-Session   Grouped     2520   LCS-Privacy-Check-Non-Session   Grouped     2521   LCS-Privacy-Check-Session   Grouped     2522   LCS-QoS-Class   Enumerated     Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172     2600   reserved   -		Enumerated	
2511   LCS-Codeword			
2512   LCS-Privacy-Check			
2513 Accuracy-Fulfilment-Indicator  2514 Age-Of-Location-Estimate  2515 Velocity-Estimate  2516 EUTRAN-Positioning-Data  2517 ECGI  2518 Location-Event  2519 Pseudonym-Indicator  2519 Pseudonym-Indicator  2520 LCS-Service-Type-ID  2521 LCS-Privacy-Check-Non-Session  2522 LCS-Privacy-Check-Session  2523 LCS-QoS-Class  Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172  2600 IMS-Application-Reference-Identifier  2603 IP-Realm-Default-Indicator  2604 Local-GW-Inserted-Indicator  2605 Transcoder-Inserted-Indicator  Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			29.172 [24]
2514 Age-Of-Location-Estimate  2515 Velocity-Estimate  2516 EUTRAN-Positioning-Data  2517 ECGI  2518 Location-Event  2519 Pseudonym-Indicator  2520 LCS-Service-Type-ID  2521 LCS-Privacy-Check-Non-Session  2522 LCS-Privacy-Check-Session  2523 LCS-QoS-Class  Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172  2600 Imbs-Application-Reference-Identifier  2601 IMS-Application-Reference-Identifier  2602 Low-Priority-Indicator  2603 IP-Realm-Default-Indicator  2604 Local-GW-Inserted-Indicator  2605 Transcoder-Inserted-Indicator  Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
2515         Velocity-Estimate         OctetString           2516         EUTRAN-Positioning-Data         OctetString           2517         ECGI         OctetString           2518         Location-Event         Enumerated           2519         Pseudonym-Indicator         Enumerated           2520         LCS-Service-Type-ID         Unsigned32           2521         LCS-Privacy-Check-Non-Session         Grouped           2522         LCS-Privacy-Check-Session         Grouped           2523         LCS-QoS-Class         Enumerated           Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172         -           2600         reserved         -           2601         IMS-Application-Reference-Identifier         UTF8String           2602         Low-Priority-Indicator         Enumerated           2603         IP-Realm-Default-Indicator         Enumerated           2604         Local-GW-Inserted-Indicator         Enumerated           2605         Transcoder-Inserted-Indicator         Enumerated           Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
2516         EUTRAN-Positioning-Data         OctetString           2517         ECGI         OctetString           2518         Location-Event         Enumerated           2519         Pseudonym-Indicator         Enumerated           2520         LCS-Service-Type-ID         Unsigned32           2521         LCS-Privacy-Check-Non-Session         Grouped           2522         LCS-Privacy-Check-Session         Grouped           2523         LCS-QoS-Class         Enumerated           Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172         -           2600         reserved         -           2601         IMS-Application-Reference-Identifier         UTF8String           2602         Low-Priority-Indicator         Enumerated           2603         IP-Realm-Default-Indicator         Enumerated           2604         Local-GW-Inserted-Indicator         Enumerated           2605         Transcoder-Inserted-Indicator         Enumerated           Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
2517 ECGI         OctetString           2518 Location-Event         Enumerated           2519 Pseudonym-Indicator         Enumerated           2520 LCS-Service-Type-ID         Unsigned32           2521 LCS-Privacy-Check-Non-Session         Grouped           2522 LCS-Privacy-Check-Session         Grouped           2523 LCS-QoS-Class         Enumerated           Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172         -           2600 reserved         -           2601 IMS-Application-Reference-Identifier         UTF8String           2602 Low-Priority-Indicator         Enumerated           2603 IP-Realm-Default-Indicator         Enumerated           2604 Local-GW-Inserted-Indicator         Enumerated           2605 Transcoder-Inserted-Indicator         Enumerated           Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
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           Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172         -           2600 reserved         -           2601 IMS-Application-Reference-Identifier         UTF8String           2602 Low-Priority-Indicator         Enumerated           2603 IP-Realm-Default-Indicator         Enumerated           2604 Local-GW-Inserted-Indicator         Enumerated           2605 Transcoder-Inserted-Indicator         Enumerated           Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
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           Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172         -           2600         reserved         -           2601         IMS-Application-Reference-Identifier         UTF8String           2602         Low-Priority-Indicator         Enumerated           2603         IP-Realm-Default-Indicator         Enumerated           2604         Local-GW-Inserted-Indicator         Enumerated           2605         Transcoder-Inserted-Indicator         Enumerated           Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
2520 LCS-Service-Type-ID         Unsigned32           2521 LCS-Privacy-Check-Non-Session         Grouped           2522 LCS-Privacy-Check-Session         Grouped           2523 LCS-QoS-Class         Enumerated           Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172           2600 reserved         -           2601 IMS-Application-Reference-Identifier         UTF8String           2602 Low-Priority-Indicator         Enumerated           2603 IP-Realm-Default-Indicator         Enumerated           2604 Local-GW-Inserted-Indicator         Enumerated           2605 Transcoder-Inserted-Indicator         Enumerated           Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
2521 LCS-Privacy-Check-Non-Session         Grouped           2522 LCS-Privacy-Check-Session         Grouped           2523 LCS-QoS-Class         Enumerated           Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172           2600 reserved         -           2601 IMS-Application-Reference-Identifier         UTF8String           2602 Low-Priority-Indicator         Enumerated           2603 IP-Realm-Default-Indicator         Enumerated           2604 Local-GW-Inserted-Indicator         Enumerated           2605 Transcoder-Inserted-Indicator         Enumerated           Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
2522 LCS-Privacy-Check-Session         Grouped           2523 LCS-QoS-Class         Enumerated           Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172           2600 reserved         -           2601 IMS-Application-Reference-Identifier         UTF8String           2602 Low-Priority-Indicator         Enumerated           2603 IP-Realm-Default-Indicator         Enumerated           2604 Local-GW-Inserted-Indicator         Enumerated           2605 Transcoder-Inserted-Indicator         Enumerated           Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
2523 LCS-QoS-Class         Enumerated           Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172           2600 reserved         -           2601 IMS-Application-Reference-Identifier         UTF8String           2602 Low-Priority-Indicator         Enumerated           2603 IP-Realm-Default-Indicator         Enumerated           2604 Local-GW-Inserted-Indicator         Enumerated           2605 Transcoder-Inserted-Indicator         Enumerated           Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172           2600   reserved         -           2601   IMS-Application-Reference-Identifier         UTF8String           2602   Low-Priority-Indicator         Enumerated           2603   IP-Realm-Default-Indicator         Enumerated           2604   Local-GW-Inserted-Indicator         Enumerated           2605   Transcoder-Inserted-Indicator         Enumerated           Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
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       2605   Transcoder-Inserted-Indicator     Enumerated       Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299		Enumerated	
2601IMS-Application-Reference-IdentifierUTF8String2602Low-Priority-IndicatorEnumerated2603IP-Realm-Default-IndicatorEnumerated2604Local-GW-Inserted-IndicatorEnumerated2605Transcoder-Inserted-IndicatorEnumeratedNote: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
2602Low-Priority-IndicatorEnumerated2603IP-Realm-Default-IndicatorEnumerated2604Local-GW-Inserted-IndicatorEnumerated2605Transcoder-Inserted-IndicatorEnumeratedNote: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
2603 IP-Realm-Default-Indicator Enumerated 2604 Local-GW-Inserted-Indicator Enumerated 2605 Transcoder-Inserted-Indicator Enumerated Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
2604 Local-GW-Inserted-Indicator Enumerated 2605 Transcoder-Inserted-Indicator Enumerated Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			32.299 [5]
2605 Transcoder-Inserted-Indicator Enumerated  Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299			
		⊨numerated	
2/00  Not allocated - 32.299 [5]			00.055.77
	2/00  Not allocated	-	32.299 [5]

2701 Not allocated	-	
2702 Not allocated	-	
2703 Not allocated	-	
2704 Not allocated	-	
2705 Not allocated	-	
2706 Not allocated	-	
2707 Not allocated	-	
2708 From-Address	UTF8String	
2709 Access-Transfer-Information Access-Transfer-Type	Grouped	
2710 Access-Transfer-Type	Enumerated	
Note: The AVP codes from 2700 to 2707 and from 2711 to 2799 are reserv	ed for TS 32.299	
2800 Reserved	-	
2801 ADC-Revalidation-Time	Time	
2802 TDF-Application-Instance-Identifier	OctetString	
2803 HeNB-BBF-FQDN	UTF8String	
2804 HeNB-Local-IP-Address	Address	
2805 UE-Local-IP-Address	Address	29.212 [19]
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	
Note: The AVP codes from 2811 to 2899 are reserved for TS 29.212	T	
2900 reserved	-	
2901 Policy-Counter-Identifier	Grouped	
2902 Policy-Counter-Status	UTF8String	29.219 [26]
2903 Policy-Counter-Status-Report	Grouped	
2904 SL-Request-Type	Enumerated	
Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219	T	
3000 reserved		
3001 Device-Action	Grouped	
3002 Device-Notification	Grouped	
3003 Trigger-Data	Grouped	
3004 Payload	OctetString	
3005 Action-Type	Enumerated	29.368 [27]
3006 Priority-Indication	Enumerated	
3007 Reference-Number	Unsigned32	
3008 Request-Status	Enumerated	
3009 Delivery-Outcome	Enumerated	
3010 Application-Port-Identifier	Unsigned32	
Note: The AVP codes from 3011to 3099 are reserved for TS 29.368	O at at Ctuins a	
3100 IP-SM-GW-Number	OctetString	
3101 IP-SM-GW-Name 3102 User-Identifier	Diameter Identity	
3102 Oser-Identifier 3103 Service-ID	Grouped Enumerated	
3104 SCS-Identity	OctetString	
3105 Service-Parameters 3106 T4-Parameters	Grouped Grouped	29.336 [28]
3106 14-Parameters 3107 Service-Data	Grouped	
	Grouped	
3108 T4-Data 3109 HSS-Cause	l Grouped	
	Uncignod22	
	Unsigned32	
3110 SIR-Flags	Unsigned32	
3110 SIR-Flags 3111 External-Identifier		
3110 SIR-Flags 3111 External-Identifier  Note: The AVP codes from 3112 to 3199 are reserved for TS 29.336	Unsigned32 UTF8String	
3110 SIR-Flags 3111 External-Identifier  Note: The AVP codes from 3112 to 3199 are reserved for TS 29.336 3200 SM-Delivery-Outcome-T4	Unsigned32 UTF8String Enumerated	29.337 [29]
3110 SIR-Flags 3111 External-Identifier  Note: The AVP codes from 3112 to 3199 are reserved for TS 29.336 3200 SM-Delivery-Outcome-T4 3201 Absent-Subscriber-Diagnostic-T4	Unsigned32 UTF8String	29.337 [29]
3110 SIR-Flags 3111 External-Identifier  Note: The AVP codes from 3112 to 3199 are reserved for TS 29.336 3200 SM-Delivery-Outcome-T4 3201 Absent-Subscriber-Diagnostic-T4  Note: The AVP codes from 3202 to 3299 are reserved for TS 29.337	Unsigned32 UTF8String  Enumerated Enumerated	29.337 [29]
3110 SIR-Flags 3111 External-Identifier Note: The AVP codes from 3112 to 3199 are reserved for TS 29.336 3200 SM-Delivery-Outcome-T4 3201 Absent-Subscriber-Diagnostic-T4 Note: The AVP codes from 3202 to 3299 are reserved for TS 29.337 3300 SC-Address	Unsigned32 UTF8String  Enumerated Enumerated OctetString	29.337 [29]
3110 SIR-Flags 3111 External-Identifier Note: The AVP codes from 3112 to 3199 are reserved for TS 29.336 3200 SM-Delivery-Outcome-T4 3201 Absent-Subscriber-Diagnostic-T4 Note: The AVP codes from 3202 to 3299 are reserved for TS 29.337 3300 SC-Address 3301 SM-RP-UI	Unsigned32 UTF8String  Enumerated Enumerated OctetString OctetString	29.337 [29]
3110 SIR-Flags 3111 External-Identifier Note: The AVP codes from 3112 to 3199 are reserved for TS 29.336 3200 SM-Delivery-Outcome-T4 3201 Absent-Subscriber-Diagnostic-T4 Note: The AVP codes from 3202 to 3299 are reserved for TS 29.337 3300 SC-Address 3301 SM-RP-UI 3302 TFR-Flags	Unsigned32 UTF8String  Enumerated Enumerated  OctetString OctetString Unsigned32	29.337 [29]
3110 SIR-Flags 3111 External-Identifier Note: The AVP codes from 3112 to 3199 are reserved for TS 29.336 3200 SM-Delivery-Outcome-T4 3201 Absent-Subscriber-Diagnostic-T4 Note: The AVP codes from 3202 to 3299 are reserved for TS 29.337 3300 SC-Address 3301 SM-RP-UI 3302 TFR-Flags 3303 SM-Delivery- Failure-Cause	Unsigned32 UTF8String  Enumerated Enumerated  OctetString OctetString Unsigned32 Grouped	29.337 [29] 29.338 [30]
3110 SIR-Flags 3111 External-Identifier Note: The AVP codes from 3112 to 3199 are reserved for TS 29.336 3200 SM-Delivery-Outcome-T4 3201 Absent-Subscriber-Diagnostic-T4 Note: The AVP codes from 3202 to 3299 are reserved for TS 29.337 3300 SC-Address 3301 SM-RP-UI 3302 TFR-Flags 3303 SM-Delivery- Failure-Cause 3304 SM-Enumerated-Delivery-Failure-Cause	Unsigned32 UTF8String  Enumerated Enumerated  OctetString OctetString Unsigned32 Grouped Enumerated	
3110 SIR-Flags 3111 External-Identifier Note: The AVP codes from 3112 to 3199 are reserved for TS 29.336 3200 SM-Delivery-Outcome-T4 3201 Absent-Subscriber-Diagnostic-T4 Note: The AVP codes from 3202 to 3299 are reserved for TS 29.337 3300 SC-Address 3301 SM-RP-UI 3302 TFR-Flags 3303 SM-Delivery- Failure-Cause 3304 SM-Enumerated-Delivery-Failure-Cause 3305 SM-Diagnostic-Info	Unsigned32 UTF8String  Enumerated Enumerated  OctetString OctetString Unsigned32 Grouped Enumerated OctetString	
3110 SIR-Flags 3111 External-Identifier Note: The AVP codes from 3112 to 3199 are reserved for TS 29.336 3200 SM-Delivery-Outcome-T4 3201 Absent-Subscriber-Diagnostic-T4 Note: The AVP codes from 3202 to 3299 are reserved for TS 29.337 3300 SC-Address 3301 SM-RP-UI 3302 TFR-Flags 3303 SM-Delivery- Failure-Cause 3304 SM-Enumerated-Delivery-Failure-Cause	Unsigned32 UTF8String  Enumerated Enumerated  OctetString OctetString Unsigned32 Grouped Enumerated	

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	Enumerated
3314	MSC-Absent-User-Subscriber-Diagnostic-SM	Enumerated
3315	SGSN-Absent-User-Subscriber-Diagnostic SM	Enumerated
	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-Subscriber-Diagnostic-SM	OctetString
Note:	The AVP codes from 3323 to 3399 are reserved for TS 29.338	

# 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 Experim	Note: The Experimental Result Codes from 2006 to 2020 are reserved for the TS 29.229.			
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]		
Note: The Experimental Result Codes from 2022 to 2040 are reserved for the TS 29.061				
		29.109 [7]		
Note: The Experim	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.			

#### 8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS							
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]							
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS								
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.								
4121	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]							
Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061.								
4141	DIAMETER_PCC_BEARER_EVENT	20 242 [40]							
4142	DIAMETER_BEARER_EVENT	29.212 [19]							
Note: The Experime	ntal Result Codes from 4142 to 4160 are reserved for the TS 29.212								
		32.299 [5]							
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.								
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE 29.272 [21]								
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.								
4201	DIAMETER_ERROR_ABSENT_USER 29.173 [25]								
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.								
4221	DIAMETER_ERROR_UNREACHABLE_USER								
4222	DIAMETER_ERROR_SUSPENDED_USER								
4223	DIAMETER_ERROR_DETACHED_USER	20 172 [24]							
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]							
4225	DIAMETER_ERROR_POSITIONING_FAILED								
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT								
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.								
4241	4241 DIAMETER_ERROR_NO_AVAILABLE_POLICY_COUNTERS 29.219 [26]								
Note: The Experime	ntal Result Codes from 4242 to 4260 are reserved for the TS 29.219.								

#### 8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

DIAMETER_ERROR_USER_UNKNOWN	Experimental Result Code	Result text	Specified in the TS
S003   DIAMETER ERROR, IDENTITY NOT_REGISTERED	5001		
S004   DIAMETER ERROR ROAMING NOT ALLOWED	5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5005   DIAMETER ERROR IDENTITY ALREADY REGISTERED	5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5005   DIAMETER ERROR IDENTITY ALREADY REGISTERED	5004		
5006   DIAMETER ERROR, AUTH SCHEME, NOT, SUPPORTED   29,229 [2]   5007   DIAMETER, ERROR, IN, ASSIGNMENT, TYPE   5008   DIAMETER, ERROR, TOO, MUCH, DATA   5009   DIAMETER, ERROR, TOO, MUCH, DATA   5010   DIAMETER, ERROR, FEATURE, UNSUPPORTED   32,299.   5011   DIAMETER, ERROR, FEATURE, UNSUPPORTED   32,299.   5011   DIAMETER, ERROR, FEATURE, UNSUPPORTED   32,299.   5011   DIAMETER, ERROR, SUPPORTED   32,299.   5011   DIAMETER, ERROR, USER, NO, WILAN, SUBSCRIPTION   5042   DIAMETER, ERROR, WILAN, SUBSCRIPTION   5042   DIAMETER, ERROR, WILAN, SUBSCRIPTION   5042   DIAMETER, ERROR, WILAN, SUBSCRIPTION   5043   DIAMETER, ERROR, WILAN, SUBSCRIPTION   5044   DIAMETER, ERROR, WILAN, SUBSCRIPTION   5045   DIAMETER, ERROR, WILAN, SUBSCRIPTION   5045   DIAMETER, ERROR, USER, NO, WILAN, SUBSCRIPTION   5045   DIAMETER, ERROR, USER, NO, WILAN, SUBSCRIPTION   5061   IINVALID, SERVICE, INFORMATION   29,234   [6]   S062   FILTER, RESTRICTIONS   29,211   [17]   S062   FILTER, RESTRICTIONS   29,211   [17]   S062   FILTER, RESTRICTIONS   29,211   [17]   S062   DIAMETER, ERROR, USER, DATA, NOT, RECOGNIZED   5101   DIAMETER, ERROR, USER, DATA, ONT, RECOGNIZED   5101   DIAMETER, ERROR, USER, DATA, CANNOT, BE, RAD   5101   DIAMETER, ERROR, USER, DATA, CANNOT, BE, RAD   5103   DIAMETER, ERROR, USER, DATA, CANNOT, BE, MODIFIED   5102   DIAMETER, ERROR, USER, DATA, CANNOT, BE, MODIFIED   5104   DIAMETER, ERROR, USER, DATA, CANNOT, BE, MODIFIED   5105   DIAMETER, ERROR, USER, DATA, CANNOT, BE, MODIFIED   5106   DIAMETER, ERROR, NO, SUBSCRIPTION, TO, DATA   5106   DIAMETER, ERROR, STAT, INDICATION   5122   DIAMETER, ERROR, STAT, INDICATION   5123   DIAMETER, ERROR, STAT, INDICATION   5124   DIAMETER, ERROR, STAT, INDICATION   5124   DIAMETER, ERROR, STAT, INDICATION   5125   DIAMETER, ERROR, STAT, INDICATION   5126   DIAMETER, ERROR, STAT, INDICATION   5126   DIAMETER, ERROR, STAT			
5007   DIAMETER ERROR IN ASSIGNMENT TYPE			29.229 [2]
S008   DIAMETER ERROR TOO MUCH DATA			[_]
DIAMETER ERROR NOT SUPPORTED USER DATA			
5010			
Sol11   DIAMÉTER ERROR_FEATURE_UNSUPPORTED			
Note: The Experimental Result Codes from 5012 to 5020 are reserved for the TS 29.229			
32.299 [5]			S 20 220
Note: The Experimental Result Codes from 5021 to 5040 are reserved for the TS 32.299.	Note: The Expe	Infinitely and the second of the 10 to 10	
DIAMETER ERROR USER NO WLAN SUBSCRIPTION	Note: The Evne	I primental Pecult Codes from 5021 to 5040 are reserved for the TS	
5042   DIAMETER_ERROR_W-APN_UNUSED_BY_USER			3 32.233.
S043   DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC RIPTION			
RIPTION   1014METER_ERROR_USER_NO_W-APN_SUBSCRIPTION   5044   DIAMETER_ERROR_UNSUITABLE_NETWORK   1014METER_ERROR_UNSUITABLE_NETWORK   1014METER_ERROR_UNSUITABLE_NETWORK   1014METER_ERROR_UNSUITABLE_NETWORK   1014METER_ERROR_UNSUITABLE_NETWORK   1014METER_ERROR_USER_DATA_CONTROL   1014METER_ERSTRICTIONS   29.209 [8], 29.209 [8], 29.211 [17]   1014METER_ERSTRICTIONS   29.211 [17]   1014METER_ERROR_USER_DATA_NOT_RECOGNIZED   1014METER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED   1014METER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED   1014METER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED   1014METER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED   1014METER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED   1014METER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED   1014METER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED   1014METER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED   1014METER_ERROR_NO_SUBSCRIPTION_TO_DATA   1014METER_ERROR_NO_SUBSCRIPTION_TO_DATA   1014METER_ERROR_NO_SUBSCRIPTION_TO_DATA   1014METER_ERROR_NO_SUBSCRIPTION_TO_DATA   1014METER_ERROR_START_INDICATION   1014METER_ERROR_INTIAL_PARAMETERS   1014METER_ERROR_INTIAL_PARAMETERS   1014METER_ERROR_INTIAL_PARAMETERS   1014METER_ERROR_ROT_INTIAL_PARAMETERS   1014METER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE   1014METER_ERROR_ROT_RAFFIC_MAPPING_INFO_REJECTE   1014METER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE   1014METE			
S044   DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	5043		29.234 [6]
Note: The Experimental Result Codes from 5046 to 5060 are reserved for the TS 29.234.	5044		
Note: The Experimental Result Codes from 5046 to 5060 are reserved for the TS 29.234.			
S061   INVALID_SERVICE_INFORMATION   29.209 [8], 2061   FILTER_RESTRICTIONS   29.211 [17]     Note: The Experimental Result Codes from 5063 to 5080 are reserved for TS 29.209 and TS 29.211.     S100			2 2 2 2 2 4
Note: The Experimental Result Codes from 5063 to 5080 are reserved for TS 29.209 and TS 29.211.			
Note: The Experimental Result Codes from 5063 to 5080 are reserved for TS 29.209 and TS 29.211.   S100			
29.211.			
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_MODIFIED     5105   DIAMETER_ERROR_TRANSPARENT_DATA     OUT_OF_SYNC     5106   DIAMETER_ERROR_SUBS_DATA_ABSENT     5107   DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA     5108   DIAMETER_ERROR_DSAI_NOT_AVAILABLE     Note: The Experimental Result Codes from 5109 to 5119 are reserved for the TS 29.329.     5120   DIAMETER_ERROR_STOP_INDICATION     5121   DIAMETER_ERROR_STOP_INDICATION     5122   DIAMETER_ERROR_STOP_INDICATION     5123   DIAMETER_ERROR_STOP_INDICATION     5124   DIAMETER_ERROR_SERVICE_AREA     Note: The Experimental Result Codes from 5124 to 5139 are reserved for the TS 29.061.     5140   DIAMETER_ERROR_INITIAL_PARAMETERS     5141   DIAMETER_ERROR_INITIAL_PARAMETERS     5142   DIAMETER_ERROR_INITIAL_PARAMETERS     5143   DIAMETER_ERROR_TRIGGER_EVENT     5144   DIAMETER_ERROR_BEARER_NOT_AUTHORIZED     5145   DIAMETER_ERROR_BEARER_NOT_AUTHORIZED     5146   reserved     5147   DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE     D	29.2	11.	9.209 and TS
5102   DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ     5103   DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED     5104   DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED     5105   DIAMETER_ERROR_TRANSPARENT_DATA     OUT_OF_SYNC     5106   DIAMETER_ERROR_SUBS_DATA_ABSENT     5107   DIAMETER_ERROR_SUBS_DATA_ABSENT     5108   DIAMETER_ERROR_DSAI_NOT_AVAILABLE     Note: The Experimental Result Codes from 5109 to 5119 are reserved for the TS 29.329.     5120   DIAMETER_ERROR_START_INDICATION     5121   DIAMETER_ERROR_START_INDICATION     5122   DIAMETER_ERROR_START_INDICATION     5123   DIAMETER_ERROR_START_INDICATION     5124   DIAMETER_ERROR_STROP_INDICATION     5125   DIAMETER_ERROR_SERVICE_AREA     Note: The Experimental Result Codes from 5124 to 5139 are reserved for the TS 29.061.     5140   DIAMETER_ERROR_INITIAL_PARAMETERS     5141   DIAMETER_ERROR_INITIAL_PARAMETERS     5142   DIAMETER_ERROR_INITIAL_PARAMETERS     5143   DIAMETER_ERROR_BEARER_NOT_AUTHORIZED     5144   DIAMETER_ERROR_BEARER_NOT_AUTHORIZED     5145   DIAMETER_ERROR_BEARER_NOT_AUTHORIZED     5146   reserved     5147   DIAMETER_ERROR_BEARER_NOT_AUTHORIZED     5148   DIAMETER_ERROR_CONFLICTING_REQUEST     5149   DIAMETER_ERROR_CONFLICTING_REQUEST     5140   DIAMETER_ERROR_CONFLICTING_REQUEST     5141   DIAMETER_ERROR_OT_AUTHORIZED     529.212 [19]     520.212 [19]     520.212 [20]     520.212 [21]     520.212 [21]     520.222 [21]     520.222 [21]     520.222 [21]     520.222 [21]     520.2222     520.2222 [21]     520.2222     520.2222     520.2222     520.2222     520.2222     520.2222     520.2222     520.2222     520.2222     520.2222     520.2222     520.2222     520.2222     520.2222     520.2222     520.2222	5100		
5103   DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED     5104   DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED     5105   DIAMETER_ERROR_TRANSPARENT_DATA     OUT_OF_SYNC     5106   DIAMETER_ERROR_SUBS_DATA_ABSENT     5107   DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA     5108   DIAMETER_ERROR_DSAI_NOT_AVAILABLE     Note: The Experimental Result Codes from 5109 to 5119 are reserved for the TS 29.329.     5120   DIAMETER_ERROR_START_INDICATION     5121   DIAMETER_ERROR_STOP_INDICATION     5122   DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC     E	5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
S104   DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
S104   DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
S105   DIAMETER_ERROR_TRANSPARENT_DATA   OUT_OF_SYNC	5104	DIAMETER ERROR USER DATA CANNOT BE NOTIFIED	00 000 [4]
5106 DIAMETER_ERROR_SUBS_DATA_ABSENT 5107 DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA 5108 DIAMETER_ERROR_DSAI_NOT_AVAILABLE  Note: The Experimental Result Codes from 5109 to 5119 are reserved for the TS 29.329.  5120 DIAMETER_ERROR_START_INDICATION 5121 DIAMETER_ERROR_STOP_INDICATION 5122 DIAMETER_ERROR_STOP_INDICATION 5122 DIAMETER_ERROR_STOP_INDICATION 5123 DIAMETER_ERROR_SERVICE_AREA  Note: The Experimental Result Codes from 5124 to 5139 are reserved for the TS 29.061. 5140 DIAMETER_ERROR_INITIAL_PARAMETERS 5141 DIAMETER_ERROR_TRIGGER_EVENT 5142 DIAMETER_ERROR_TRIGGER_EVENT 5143 DIAMETER_ERROR_TRIGGER_EVENT 5144 DIAMETER_ERROR_BEARER_NOT_AUTHORIZED 5144 DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D 5145 DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D 5146 reserved 5147 DIAMETER_ERROR_CONFLICTING_REQUEST 5148 DIAMETER_ERROR_CONFLICTING_REQUEST 5149 DIAMETER_ERROR_INDI_UNKNOWN 5402 DIAMETER_ERROR_INDI_UNKNOWN 5402 DIAMETER_ERROR_INDI_UNKNOWN 5403 DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109. 5420 DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION 5421 DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION 5422 DIAMETER_ERROR_RAT_NOT_ALLOWED 29.272 [21] 5423 DIAMETER_ERROR_EQUIPMENT_UNKNOWN 5423 DIAMETER_ERROR_UNKNOWN_SERVING_NODE	5105		29.329 [4]
S107   DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA     5108   DIAMETER_ERROR_DSAI_NOT_AVAILABLE     Note: The Experimental Result Codes from 5109 to 5119 are reserved for the TS 29.329.     5120   DIAMETER_ERROR_START_INDICATION     5121   DIAMETER_ERROR_STOP_INDICATION     5122   DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC     E			
S108   DIAMETER_ERROR_DSAI_NOT_AVAILABLE     Note: The Experimental Result Codes from 5109 to 5119 are reserved for the TS 29.329.     5120   DIAMETER_ERROR_START_INDICATION     5121   DIAMETER_ERROR_STOP_INDICATION     5122   DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC     E			
Note: The Experimental Result Codes from 5109 to 5119 are reserved for the TS 29.329.  5120 DIAMETER_ERROR_START_INDICATION  5121 DIAMETER_ERROR_STOP_INDICATION  5122 DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	5107		
S120   DIAMETER_ERROR_START_INDICATION     S121   DIAMETER_ERROR_STOP_INDICATION     S122   DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC     E	5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
5121 DIAMETER_ERROR_STOP_INDICATION 5122 DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E  5123 DIAMETER_ERROR_SERVICE_AREA  Note: The Experimental Result Codes from 5124 to 5139 are reserved for the TS 29.061.  5140 DIAMETER_ERROR_INITIAL_PARAMETERS 5141 DIAMETER_ERROR_TRIGGER_EVENT 5142 DIAMETER_ERROR_BEARER_NOT_AUTHORIZED 5144 DIAMETER_ERROR_BEARER_NOT_AUTHORIZED 5144 DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D 5145 DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D 5146 reserved 5147 DIAMETER_ERROR_CONFLICTING_REQUEST 5148 DIAMETER_ADC_RULE_EVENT Note: The Experimental Result Codes from 5149 to 5159 are reserved for the TS 29.212. 5401 DIAMETER_ERROR_IMPI_UNKNOWN 5402 DIAMETER_ERROR_IMPI_UNKNOWN 5402 DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109. 5420 DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109. 5420 DIAMETER_ERROR_RAT_NOT_ALLOWED 5421 DIAMETER_ERROR_RAT_NOT_ALLOWED 5422 DIAMETER_ERROR_EQUIPMENT_UNKNOWN 5423 DIAMETER_ERROR_EQUIPMENT_UNKNOWN 5423 DIAMETER_ERROR_UNKNOWN_SERVING_NODE	Note: The Expe	rimental Result Codes from 5109 to 5119 are reserved for the TS	S 29.329.
5122 DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E  5123 DIAMETER_ERROR_SERVICE_AREA  Note: The Experimental Result Codes from 5124 to 5139 are reserved for the TS 29.061.  5140 DIAMETER_ERROR_INITIAL_PARAMETERS  5141 DIAMETER_ERROR_TRIGGER_EVENT  5142 DIAMETER_ERROR_BEARER_NOT_AUTHORIZED  5143 DIAMETER_ERROR_BEARER_NOT_AUTHORIZED  5144 DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D  5145 DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D  5146 reserved  5147 DIAMETER_ERROR_CONFLICTING_REQUEST  5148 DIAMETER_ADC_RULE_EVENT  Note: The Experimental Result Codes from 5149 to 5159 are reserved for the TS 29.212.  5401 DIAMETER_ERROR_IMPI_UNKNOWN  5402 DIAMETER_ERROR_NOT_AUTHORIZED  5403 DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID  Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109.  5420 DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION  5421 DIAMETER_ERROR_RAT_NOT_ALLOWED  5422 DIAMETER_ERROR_EQUIPMENT_UNKNOWN  5423 DIAMETER_ERROR_UNKNOWN_SERVING_NODE	5120	DIAMETER_ERROR_START_INDICATION	
5122 DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC E  5123 DIAMETER_ERROR_SERVICE_AREA  Note: The Experimental Result Codes from 5124 to 5139 are reserved for the TS 29.061.  5140 DIAMETER_ERROR_INITIAL_PARAMETERS  5141 DIAMETER_ERROR_TRIGGER_EVENT  5142 DIAMETER_ERROR_BEARER_NOT_AUTHORIZED  5143 DIAMETER_ERROR_BEARER_NOT_AUTHORIZED  5144 DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D  5145 DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D  5146 reserved  5147 DIAMETER_ERROR_CONFLICTING_REQUEST  5148 DIAMETER_ADC_RULE_EVENT  Note: The Experimental Result Codes from 5149 to 5159 are reserved for the TS 29.212.  5401 DIAMETER_ERROR_IMPI_UNKNOWN  5402 DIAMETER_ERROR_NOT_AUTHORIZED  5403 DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID  Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109.  5420 DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION  5421 DIAMETER_ERROR_RAT_NOT_ALLOWED  5422 DIAMETER_ERROR_EQUIPMENT_UNKNOWN  5423 DIAMETER_ERROR_UNKNOWN_SERVING_NODE	5121	DIAMETER_ERROR_STOP_INDICATION	
Note: The Experimental Result Codes from 5124 to 5139 are reserved for the TS 29.061.  5140 DIAMETER_ERROR_INITIAL_PARAMETERS  5141 DIAMETER_ERROR_TRIGGER_EVENT  5142 DIAMETER_PCC_RULE_EVENT  5143 DIAMETER_ERROR_BEARER_NOT_AUTHORIZED  5144 DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D  5145 DIAMETER_QOS_RULE_EVENT  5146 reserved  5147 DIAMETER_ERROR_CONFLICTING_REQUEST  5148 DIAMETER_ADC_RULE_EVENT  Note: The Experimental Result Codes from 5149 to 5159 are reserved for the TS 29.212.  5401 DIAMETER_ERROR_IMPI_UNKNOWN  5402 DIAMETER_ERROR_IMPI_UNKNOWN  5402 DIAMETER_ERROR_NOT_AUTHORIZED  5403 DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID  Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109.  5420 DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION  5421 DIAMETER_ERROR_RAT_NOT_ALLOWED  5422 DIAMETER_ERROR_EQUIPMENT_UNKNOWN  5423 DIAMETER_ERROR_UNKNOWN_SERVING_NODE	5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]
Note: The Experimental Result Codes from 5124 to 5139 are reserved for the TS 29.061.  5140 DIAMETER_ERROR_INITIAL_PARAMETERS  5141 DIAMETER_ERROR_TRIGGER_EVENT  5142 DIAMETER_PCC_RULE_EVENT  5143 DIAMETER_ERROR_BEARER_NOT_AUTHORIZED  5144 DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D  5145 DIAMETER_QOS_RULE_EVENT  5146 reserved  5147 DIAMETER_ERROR_CONFLICTING_REQUEST  5148 DIAMETER_ADC_RULE_EVENT  Note: The Experimental Result Codes from 5149 to 5159 are reserved for the TS 29.212.  5401 DIAMETER_ERROR_IMPI_UNKNOWN  5402 DIAMETER_ERROR_IMPI_UNKNOWN  5402 DIAMETER_ERROR_NOT_AUTHORIZED  5403 DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID  Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109.  5420 DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION  5421 DIAMETER_ERROR_RAT_NOT_ALLOWED  5422 DIAMETER_ERROR_EQUIPMENT_UNKNOWN  5423 DIAMETER_ERROR_UNKNOWN_SERVING_NODE			
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5141 DIAMETER_ERROR_TRIGGER_EVENT 5142 DIAMETER_PCC_RULE_EVENT 5143 DIAMETER_ERROR_BEARER_NOT_AUTHORIZED 5144 DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D 5145 DIAMETER_QOS_RULE_EVENT 5146 reserved 5147 DIAMETER_ERROR_CONFLICTING_REQUEST 5148 DIAMETER_ADC_RULE_EVENT Note: The Experimental Result Codes from 5149 to 5159 are reserved for the TS 29.212. 5401 DIAMETER_ERROR_IMPI_UNKNOWN 5402 DIAMETER_ERROR_IMPI_UNKNOWN 5402 DIAMETER_ERROR_NOT_AUTHORIZED 5403 DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109. 5420 DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION 5421 DIAMETER_ERROR_RAT_NOT_ALLOWED 5422 DIAMETER_ERROR_EQUIPMENT_UNKNOWN 5423 DIAMETER_ERROR_UNKNOWN_SERVING_NODE			
5142 DIAMETER_PCC_RULE_EVENT 5143 DIAMETER_ERROR_BEARER_NOT_AUTHORIZED 5144 DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D 5145 DIAMETER_QOS_RULE_EVENT 5146 reserved 5147 DIAMETER_ERROR_CONFLICTING_REQUEST 5148 DIAMETER_ADC_RULE_EVENT Note: The Experimental Result Codes from 5149 to 5159 are reserved for the TS 29.212. 5401 DIAMETER_ERROR_IMPI_UNKNOWN 5402 DIAMETER_ERROR_IMPI_UNKNOWN 5402 DIAMETER_ERROR_NOT_AUTHORIZED 5403 DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109. 5420 DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION 5421 DIAMETER_ERROR_RAT_NOT_ALLOWED 5422 DIAMETER_ERROR_RAT_NOT_ALLOWED 5423 DIAMETER_ERROR_UNKNOWN_SERVING_NODE			
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5148 DIAMETER_ADC_RULE_EVENT  Note: The Experimental Result Codes from 5149 to 5159 are reserved for the TS 29.212.  5401 DIAMETER_ERROR_IMPI_UNKNOWN  5402 DIAMETER_ERROR_NOT_AUTHORIZED 29.109 [7  5403 DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID  Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109.  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			
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5401     DIAMETER_ERROR_IMPI_UNKNOWN       5402     DIAMETER_ERROR_NOT_AUTHORIZED     29.109 [7       5403     DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID       Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109.       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			2 22 242
5402DIAMETER_ERROR_NOT_AUTHORIZED29.109 [75403DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALIDNote: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109.5420DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION5421DIAMETER_ERROR_RAT_NOT_ALLOWED29.272 [21]5422DIAMETER_ERROR_EQUIPMENT_UNKNOWN5423DIAMETER_ERROR_UNKNOWN_SERVING_NODE			5 29.212.
5403 DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID  Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109.  5420 DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION  5421 DIAMETER_ERROR_RAT_NOT_ALLOWED  5422 DIAMETER_ERROR_EQUIPMENT_UNKNOWN  5423 DIAMETER_ERROR_UNKNOWN_SERVING_NODE			_
Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 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			29.109 [7
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			
5421 DIAMETER_ERROR_RAT_NOT_ALLOWED 29.272 [21] 5422 DIAMETER_ERROR_EQUIPMENT_UNKNOWN 5423 DIAMETER_ERROR_UNKNOWN_SERVING_NODE			S 29.109.
5422 DIAMETER_ERROR_EQUIPMENT_UNKNOWN 5423 DIAMETER_ERROR_UNKNOWN_SERVING_NODE			
5423 DIAMETER_ERROR_UNKNOWN_SERVING_NODE			29.272 [21]
5423 DIAMETER_ERROR_UNKNOWN_SERVING_NODE	5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
	5423		
	Note: The Expe		S 29.272.

5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI ON	00 070 (00)					
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	29.273 [20]					
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED						
Note: The Expe	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 NT	29.215 [22]					
Note: The Expe	erimental Result Codes from 5472 to 5489 are reserved for the TS	S 29.215.					
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK	29.173 [25]					
Note: The Expe	erimental Result Codes from 5491 to 5509 are reserved for the TS	S 29.173.					
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI						
	TY	29.336 [28]					
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE						
Note: The Expe	Note: The Experimental Result Codes from 5512 to 5529 are reserved for the TS 29.336.						
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS						
5531	DIAMETER_ERROR_SC_CONGESTION	29.337 [29]					
5532	DIAMETER_ERROR_SM_PROTOCOL						
Note: The Expe	erimental Result Codes from 5533 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 Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338.							
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]					
Note: The Expe	erimental Result Codes from 5571 to 5589 are reserved for the TS	S 29.219.					

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

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

# A.1 Application identifiers

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

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

#### A.2 Command codes

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

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

#### A.3 AVP codes

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

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

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

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

#### A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

# Annex B (informative): Change history

	1			_	Change history		1
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292			Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25	NP-040401			Correction of Charging application reference	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Removal of User Data Request Type AVP	6.0.0	6.1.0
2004-09	CN#25	NP-040412		1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26	NP-040579		ļ.,	Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12	CN#26	NP-040580		1	Reservation of command code 310	6.1.0	6.2.0
2004-12	CN#26	NP-040579		1	Addition of Gmb interface	6.1.0	6.2.0
2004-12	CN#26	NP-040600		2	Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047		1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039			Allocations for Gx interface	ļ	
		NP-050039		-	Allocations for Gmb interface	ļ	
0005.00	OT#00	NP-050039			Allocations for MMS, MM10 Interface	0.0.0	0.40
2005-06	CT#28	CP-050088		4	Gx interface allocation correction	6.3.0	6.4.0
2005.00	CT#20	CP-050196		1	Addition of Maximum-Number-Accesses AVP	C 4 O	0.5.0
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.4.0	6.5.0
		CP-050310 CP-050310		-	Addition of Pr reference point to TS 29.230  Error code cleanup	{	
		CP-050310			Addition of Rx ref. point and renaming of Experimental Result	}	
		CF-030310	0030		Codes		
2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-12	CT#30	CP-050624	0058		Addition of GBA-Type AVP	7.0.0	7.1.0
	Ï	CP-050612			Additional Gmb AVP Allocation	ĺ	
		CP-050612	0065		Reservation of AVP codes for 32.299	ĺ	
		CP-050625	0066		Management of Sh subscriptions		
2006-03	CT#31	CP-060073	0069		Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
		CP-060084			User-Data in the response to Sh-Subs-Notif		
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure		
2006-06	CT#32	CP-060302			S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417		3	New AVP Code	7.3.0	7.4.0
		CP-060417			Errors to be sent in response to Sh-Notif	Į	
		CP-060417			Definition of specific Diameter codes for DSAI		
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
		CP-060562		-	Addition of Diameter Error Code for Emergency Purposes	ļ	
		CP-060555		-	Allocation of new AVP codes for Gmb	ļ	
		CP-060555			AVP code allocations for Rf and Ro interfaces		
0007.00	07,405	CP-060566			Allocation of Success Result Code Range for Gi Interface	7.5.0	7.0.0
2007-03	CT#35	CP-070020			C3 requested addition of new AVP code values to 3GPP TS 29.230	7.5.0	7.6.0
		CP-070020 CP-070020			Allocation of new AVP code for DSAI-Tag AVP	}	
2007-06	CT#36	CP-070020			Allocation of Experimental-Result-Code AVP for Gi Interface	7.6.0	7.7.0
2007-00	C1#30	CP-070318			Diameter application ID for the Rel-7 Rx interface  Experimental-Result-Codes for Gmb interface	7.0.0	7.7.0
		CP-070312			Correction of Diameter AVP code allocation	ł	
2007-09	CT#37	CP-070527			Application ID for Gx protocol	7.7.0	7.8.0
2007-03	CT#37	CP-070743			AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
2007-12	01#30	01 010143	0105		Allocation of 3GPP specific AVP codes and Experimental Result	7.0.0	7.5.0
			0100		Codes for Gx protocol		
2007-12	CT#38	CP-070755	0101	4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
			0103		AVP code reservation for 32.299 in Rel-8		
2008-03	CT#39	CP-080015			Correction of reference to TS 29.140	8.0.0	8.1.0
		CP-080019			AVP code reservation for TS 32.299 in Rel-8	[	
		CP-080019			Wildcarded Public User Identities	Į	
		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	ĺ	
2008-06	CT#40	CP-080267			A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-09	CT#41	CP-080456			Emergency Public User Identity Removal	8.2.0	8.3.0
2008-09	CT#41	CP-080460		1	Support of "Loose-Route" indication from HSS	1	
2008-09	CT#41	CP-080460			STaMIP Application Id	Ì	
					Cx Impacts of IMS Restoration Procedures (New AVP Codes		

2008-09	CT#41	CP-080463			Assignment)  New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42	CP-080691			Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691	0128	1	Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044	0130	1	Update for ReadyForSM	8.4.0	8.5.0
2009-03	CT#43	CP-090044	0131	1	Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090026	0132		Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033			Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024			AVP codes for S9 protocol	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Location of Permanent Failure result code range for the S9 application	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0141		AVPs for TS 29.273	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299			Update of the AVP Codes	8.5.0	8.6.
-000 00	0 1 // 1 1	CP-090299		·	AVP code reservation for TS 32.299	0.0.0	0.0.
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"	†	
		CF-090299	0146		Removal of Requesting Node Type from AIR	-	
		CD 000000				-	
2000 00	OT#45	CP-090299			S6b Application ID	0.00	0.7
2009-09	CT#45	CP-090530		<b> </b>	Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
		CP-090530		<u> </u>	AVP code allocation for TS 29.212	4	
		CP-090531		<u> </u>	Update of the AVP type for the User-Id	1	
	1	CP-090531			Trace Depth per session	<u> </u>	<u> </u>
2009-09	CT#45	CP-090557			AVP code range for charging	8.7.0	9.0.
2009-12	CT#46	CP-090800			ICS-Flag	9.0.0	9.1.
		CP-091032			From GMLC-Address to GMLC-Number	1	
			0160		Session-Priority AVP		
			0163	2	Introduction of SLh application related AVPs and Experimental Result codes		
			0166		Missing AVP error codes		
		CP-090797		1	Introduction of SLg application related AVPs and Application		
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2010-03	CT#47	CP-100031	0158	1	Wildcarded Public Identity	9.1.0	9.2.
		CP-100034			Correction on AVP code allocation reservation for TS 32.299 in		
					Rel-9		
		CP-100046	0169	1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109		
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		CP-100236		4	EPS Subcsriber State and Location Information Request		
		CP-100033			One time notification AVP allocation		
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		CP-100175			Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
2010-06	CT#48	CP-100263		1	AVP Codes for PCC	9.2.0	9.3.
			0183		EPS state and location retrieval		
		CP-100287			SGmb Application ID		
		CP-100277			New APVs in S6a protocol		İ
2010-09	CT#49	CP-100463			Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.
					interfaces		
		CP-100464	0196		AVP Codes Allocation for PCC	1	İ
2010-09	CT#49	CP-100465		1	SIPTO Permission Indicator	9.4.0	10.0
	1	CP-100466			Location data including only serving node address	1	
		CP-100466			AVP for Update-Eff feature	1	
2010-12	CT#50	CP-100699			Enhanced SRVCC Subscriber Data	10.0.0	10.
		CP-100687			Allocate codes for AVPs on eMPS		1
		CP-100683			Allocate codes for AVPs on LIPA		İ
		CP-100688			Periodic TAU/RAU timer in HSS subscription		İ
		CP-100846			S6a Error Diagnostic	1	
2011-03	CT#51	CP-110051			PDP-Address correction	10.1.0	10 1
	2 / // 3 /	CP-110054			Essential correction on the value type of the ELP Application AVPs	1 3. 1.0	. 5.2
	1	CP-110087			Minimization of Drive Tests (MDT)	1	
		CP-110088			Relay Node Indicator AVPs	1	
2011-06	CT#52	CP-110349			Handling of RTR for Emergency Registration	10.2.0	10 1
2011-06 CT#	0 1 11 02	CP-110347			Add AVPs from QSPEC cleanup	. 3.2.0	
		CP-110359		i -	MIPv4 security parameters on the STa and S6b interfaces	1	
	-	CP-110339			MDT user consent	1	
	1	CP-110380 CP-110370			AVP Code Allocation for Pre-paging	-	
			0223			4	
			0227	1	DI ID-Flage AVD		
2011 00	OT#52	CP-110375			PUR-Flags AVP	10.2.0	10
2011-09	CT#53	CP-110375 CP-110559	0236	1	AVP code alignment with 29.212	10.3.0	10.4
<u>?</u> 011-09	CT#53	CP-110375	0236 0239	1		10.3.0	10.4

		CP-110555	0252		Failure code and AVP code alignment with 29.212	7	
		CP-110722			Priviledged sender		İ
2011-09	CT#53	CP-110584			Add vSRVCC updates to the Diameter AVP code table	10.4.0	11.0.0
		CP-110579	-		AVP code alignment with 32.299		
		CP-110555			AVP code reservation for 29.212		
2011-12	CT#54	CP-110812		1	SWx Restoration AVPs	11.0.0	11.1.0
		CP-110812			Sy and Sd Application IDs		
	İ	CP-110775			New AVP codes for MBMS IP unicast encapsulation		İ
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		CP-110786		1	MME-Realm AVP code allocation		
	İ	CP-110811			Equivalent PLMN CSG Subscription Request		İ
	İ	CP-110781		1	Restoration of Wildcarded-IMPU AVP		İ
2012-03	CT#55	CP-120025			Codes Allocation for AVPs on Initial Attach	11 1 0	11.2.0
2012 00	01,100	CP-120038			New AVP codes for Absolute Time of MBMS Data Transfer over	- 111110	11.2.0
		020000	0200		SGmb		
		CP-120038	0291	1	Allocating Diameter AVP codes for TS 29.219 and TS 29.212	_	İ
2012-06	CT#56	CP-120240			Codes Allocation for AVPs on NPLI	11 2 0	11.3.0
2012 00	01#30	CP-120238			Adding new Diameter AVPs to Diameter table to support Trusted	11.2.0	11.5.0
		01 120230	0234	'	WLAN Access feature		
		CP-120225	0296	1	Trust Relationship Indication		l
		CP-120251			Corrections to reference titles		
		CP-120251			Diameter Code Allocation for TS 29.219		
		CP-120247			Network Name AVP codes	_	
		CP-120247		_	Duplicated AVP names	-	ļ
2012-09	CT#57	CP-120219			PS additional number allocation	11.3.0	11.4.0
2012-09	C1#57				SMS in MME/SGSN	11.3.0	11.4.0
		CP-120473 CP-120461				_	
					AAA Failure Recovery AVP codes	-	ļ
		CP-120474		_	Transport Access Type AVP for BBAI Local Time Zone	_	
		CP-120480				-	
		CP-120472	0308	-	Allocating Application Identifier and command code for Tsp		
		CD 400470	0000		interface	_	
		CP-120472	0309	-	Application Identifier, Command Codes and AVP range for S6m		
		OD 400007	0040	4	interface		
		CP-120667			GMLC-Name		
	0=::=0	05 100=01	0313		Reference list correction to align with the corrected TS 29.212 title		
2012-12	CT#58	CP-120731		_	T4 device triggering via IMS	11.4.0	11.5.0
		CP-120731			Codes and Identifier Allocation for T4 Specification	_	
		CP-120731			AVP Code Allocation for 29.336		
		CP-120731			Diameter AVP code value allocation in TS 29.368		
		CP-120732	0319	2	Application Identifier, Command Codes and AVP codes for SGd,		
		05 400=40			S6c		
		CP-120716			AVP name modification in TS 32.299	_	ļ
		CP-120742		_	UE Time Zone AVP	_	ļ
		CP-120741		1	Use of Flag instead of Enumerated AVPs		
		CP-120741		-	Use of Flag instead of Enumerated AVPs		
		CP-120743		-	PSI direct routing with restoration procedures		
		CP-120743		-	EPS LocationInformation Support		
2013-03	CT#59	CP-130026			Diameter error code for TS 29.219	11.5.0	11.6.0
		CP-130026			MDT parameters		
2013-06	CT#60	CP-130288		1	Add new DER-S6b-flag AVP	11.6.0	11.7.0
		CP-130298		-	Failure Result Codes Allocation for TS 29.219	_	
		CP-130292	0357	<u> -</u>	Diameter AVP codes for new TS 32.299 AVPs		
		CP-130279			Definition of SS Status for Call Barring		
		CP-130297	0346	1	Application Port Identifier		
		CP-130295	0343	-	Restoration Priority during SGW and PGW restoration procedures	1	
	Ì	CP-130374			MTRR on Sh	1	
	CT#61	CP-130460			Allocation of Diameter codes and identifiers for 29.212 and 29.215		11.8.0

# History

	Document history						
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