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Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); LTE;

Diameter applications; 3GPP specific codes and identifiers (3GPP TS 29.230 version 12.6.0 Release 12)



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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

[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.

Diameter protocol; Stage 3".

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

Release as ti	ne present aocument.
[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="mailto: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)".
[14]	3GPP TS 32.296: "Telecommunication management; Charging management; Online Charging System (OCS): Applications and interfaces".
[15]	3GPP TS 29.210: "Charging rule provisioning over Gx interface".

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".
[2	20]	3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces".
[2	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".
[2	22]	3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point; Stage 3".
[2	23]	IETF RFC 5516: "Diameter Command Code Registration for Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)".
[2	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".
[2	25]	3GPP TS 29.173: "Location Services (LCS); Diameter-based SLh interface for Control Plane LCS".
[2	26]	3GPP TS 29.219: "Policy and Charging Control: Spending Limit Reporting over Sy reference point".
[2	27]	3GPP TS 29.368: "Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS)".
[2	28]	3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications".
[2	29]	3GPP TS 29.337: "Diameter-based T4 interface for communications with packet data networks and applications".
[3	30]	3GPP TS 29.338: "Diameter based protocols to support SMS capable MMEs".
[:	31]	3GPP TS 29.468: "Group Communication System Enablers for LTE (GCSE_LTE)"

#### 3 Definitions and abbreviations

#### **Definitions** 3.1

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

Liaison Statement LS

## 4 Application identifiers

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

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

### 4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

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

### 5 Command codes

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

#### 5.1 Command codes allocated for 3GPP

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
300	User-Authorization-Request/-Answer	UAR/UAA	
301	Server-Assignment-Request/-Answer	SAR/SAA	
302	Location-Info-Request/-Answer	LIR/LIA	
303	Multimedia-Auth-Request/-Answer	MAR/MAA	29.229 [2]
304	Registration-Termination-Request/-	RTR/RTA	
	Answer		
305	Push-Profile-Request/-Answer	PPR/PPA	
306	User-Data-Request/-Answer	UDR/UDA	
307	Profile-Update-Request/-Answer	PUR/PUA	11 000 00
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		
8388656	Trigger-Establishment-Request/Answer	TER/TEA	29.215 [30]
8388662	GCS-Action-Request/Answer	GAR/GAA	29.468 [31]
8388663	GCS-Notification-Request/Answer	GNR/GNA	29.400 [31]

## 6 Vendor identifier

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

#### 6.1 3GPP's vendor identifier

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

## 7 Attribute-Value-Pair codes

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

## 7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

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

	Flow-Grouping	Grouped	
	Flow-Number	Unsigned32	
	Flows	Grouped	
	Flow-Status	Enumerated	
	Flow-Usage	Enumerated	
	Specific-Action	Enumerated	
	Max-Requested-Bandwidth	Unsigned32	
	Max-Requested-Bandwidth-DL	Unsigned32	
	Max-Requested-Bandwidth-UL	Unsigned32	
	Media-Component-Description	Grouped	
	Media-Component-Number	Unsigned32	
	Media-Sub-Component AVP	Grouped	
	Media-Type	Enumerated	
	RR-Bandwidth	Unsigned32	
	RS-Bandwidth	Unsigned32	
	SIP-Forking-Indication	Enumerated	
	Codec-Data	OctetString	
	Service-URN	OctetString	
	Acceptable-Service-Info	Grouped	
	Service-Info-Status	Enumerated	
	MPS-Identifier	OctetString	
	AF-Signalling-Protocol	Enumerated	
	Sponsored-Connectivity-Data	Grouped	
	Sponsor-Identity Sponsor-Identity	OctetString	
	Application-Service-Provider-Identity	OctetString	
	Rx-Request-Type	Enumerated	
	Min-Requested-Bandwidth-DL	Unsigned32	
	Min-Requested-Bandwidth-UL	Unsigned32	
	Required-Access-Info	Enumerated	
	IP-Domain-Id	OctetString	
	The AVP codes from 538 to 599 are reserved for TS 29.209, TS 29.2		
	Visited-Network-Identifier	OctetString	
	Public-Identity Public-Identity	UTF8String	
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	
_	SIP-Authorization	OctetString	
	SIP-Authentication-Context	OctetString	
	SIP-Auth-Data-Item	Grouped	
	SIP-Item-Number	Unsigned32	
	Server-Assignment-Type	Enumerated	
_	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	29.229 [2]
	Reason-Info	UTF8String	
	Charging-Information	Grouped	
	Primary-Event-Charging-Function-Name	DiameterURI	
	Secondary-Event-Charging-Function-Name	DiameterURI	
	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
	User-Authorization-Type	Enumerated	
	User-Data-Already-Available	Enumerated	
	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
トレンス		Grouped	
	Supported-Features		
629	Feature-List-ID	Unsigned32	
629 630	Feature-List-ID Feature-List	Unsigned32 Unsigned32	
629 630 631	Feature-List-ID Feature-List Supported-Applications	Unsigned32 Unsigned32 Grouped	
629 630 631 632	Feature-List-ID Feature-List	Unsigned32 Unsigned32	

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

<u> </u>	T : :: 101	1,777.0	
	Terminating-IOI	UTF8String	
	IMS-Charging-Identifier	UTF8String	
	SDP-Session-Description	UTF8String	
	SDP-Media-Component	Grouped	
	SDP-Media-Name	UTF8String	
	SDP-Media-Description	UTF8String	
	CG-Address	Address	
	GGSN-Address	Address	
	Served-Party-IP-Address	Address	
	Authorized-QoS	UTF8String	
	Application-Server-Information	Grouped	
	Trunk-Group-Id	Grouped	
	Incoming-Trunk-Group-Id	UTF8String	
	Outgoing-Trunk-Group-Id	UTF8String	
	Bearer-Service	OctetString	
	Service-Id	UTF8String	
	Associated-URI	UTF8String	
	Charged-Party	UTF8String	
	PoC-Controlling-Address	UTF8String	
	PoC-Group-Name	UTF8String	
	Cause	Grouped	
	Cause-Code	Integer32	
	Node-Functionality	Enumerated	
	Service-Specific-Data	UTF8String	
	Originator	Enumerated	
	PS-Furnish-Charging-Information	Grouped	
	PS-Free-Format-Data	OctetString	
	PS-Append-Free-Format-Data	Enumerated	
	Time-Quota-Threshold	Unsigned32	
	Volume-Quota-Threshold	Unsigned32	
	Trigger-Type	Enumerated	
	Quota-Holding-Time	Unsigned32	
	Reporting-Reason	Enumerated	
	Service-Information	Grouped	
	PS-Information	Grouped	
	WLAN-Information	Grouped	
	IMS-Information	Grouped	
	MMS-Information	Grouped	
	LCS-Information	Grouped	
	PoC-Information	Grouped	
	MBMS-Information	Grouped	
881	Quota-Consumption-Time	Unsigned32	
	Media-Initiator-Flag	Enumerated	
	PoC-Server-Role	Enumerated	
	PoC-Session-Type	Enumerated	
	Number-Of-Participants	Unsigned32	
	Originator-Address	Grouped	
	Participants-Involved	UTF8String	
	Expires	Unsigned32	
	Message-Body	Grouped	
890	WAG-Address	Address	
891	WAG-PLMN-Id	OctetString	
	WLAN-Radio-Container	Grouped	
	WLAN-Technology	Unsigned32	
	WLAN-UE-Local-IPAddress	Address	
	PDG-Address	Address	
896	PDG-Charging-Id	Unsigned32	
	Address-Data	UTF8String	
	Address-Domain	Grouped	
	Address-Type	Enumerated	
900	TMGI	OctectString	
	Required-MBMS-Bearer-Capabilities	UTF8String	00 004 ***
	MBMS-StartStop-Indication	Enumerated	29.061 [13]
	MBMS-Service-Area	OctectString	

904	MBMS-Session-Duration	Unsigned32	
905	Alternative-APN	UTF8String	
906	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	MBMS-Counting-Information	Enumerated	
915	MBMS-User-Data-Mode-Indication	Enumerated	
916	MBMS-GGSN-Address	UTF8String	
	MBMS-GGSN-IPv6-Address	UTF8String	
	MBMS-BMSC-SSM-IP-Address	UTF8String	
919	MBMS-BMSC-SSM-IPv6-Address	UTF8String	
920	MBMS-Flow-Identifier	OctetString	
	CN-IP-Multicast-Distribution	Enumerated	
922	MBMS-HC-Indicator	Enumerated	
	MBMS-Access-Indicator	Enumerated	
924	MBMS-GW-SSM-IP-Address	OctetString	
	MBMS-GW-SSM-IPv6-Address	OctetString	
	MBMS-BMSC-SSM-UDP-Port	OctetString	
927	MBMS-GW-UDP-Port	OctetString	
	MBMS-GW-UDP-Port-Indicator	Enumerated	
929	MBMS-Data-Transfer-Start	Unsigned64	
930	MBMS-Data-Transfer-Stop	Unsigned64	
931	MBMS-Flags	Unsigned32	
Note:	The AVP codes from 932 to 999 are reserved for TS 29.061		
1000	Bearer-Usage	Enumerated	
1001	Charging-Rule-Install	Grouped	
1002	Charging-Rule-Remove	Grouped	
1003	Charging-Rule-Definition	Grouped	
1004	Charging-Rule-Base-Name	UTF8String	
1005	Charging-Rule-Name	OctetString	
1006	Event-Trigger	Enumerated	
1007	Metering-Method	Enumerated	
1008	Offline	Enumerated	
1009	Online	Enumerated	
1010	Precedence	Unsigned32	
1011	Reporting-Level	Enumerated	
	TFT-Filter	IPFilterRule	
1013	TFT-Packet-Filter-Information	Grouped	
1014	ToS-Traffic-Class	OctetString	
	QoS-Information	Grouped	
1018	Charging-Rule-Report	Grouped	
	PCC-Rule-Status	Enumerated	20 242 [40]
	Bearer-Identifier	OctetString	29.212 [19]
1021	Bearer-Operation	Enumerated	
	Access-Network-Charging-Identifier-Gx	Grouped	
	Bearer-Control-Mode	Enumerated	
	Network-Request-Support	Enumerated	
	Guaranteed-Bitrate-DL	Unsigned32	
	Guaranteed-Bitrate-UL	Unsigned32	
	IP-CAN-Type	Enumerated	
	QoS-Class-Identifier	Enumerated	
	QoS-Negotiation	Enumerated	
	QoS-Upgrade	Enumerated	
	Rule-Failure-Code	Enumerated	
	RAT-Type	Enumerated	
	Event-Report-Indication	Grouped	
	Allocation-Retention-Priority	Grouped	
	CoA-IP-Address	Address	
	Tunnel-Header-Filter	IPFilterRule	
	Tunnel-Header-Length	Unsigned32	
		g <b></b>	

1038 Tunnel-Information	Grouped	
1039 CoA-Information	Grouped	
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32	
041 APN-Aggregate-Max-Bitrate-UL	Unsigned32	
042 Revalidation-Time	Time	
043 Rule-Activation-Time	Time	
044 Rule-DeActivation-Time	Time	
045 Session-Release-Cause	Enumerated	
046 Priority-Level	Unsigned32	
047 Pre-emption-Capability	Enumerated	
048 Pre-emption-Vulnerability	Enumerated	
049 Default-EPS-Bearer-QoS	Grouped	
050 AN-GW-Address	Address	
051 QoS-Rule-Install	Grouped	
052 QoS-Rule-Remove	Grouped	
053 QoS-Rule-Definition	Grouped	
054 QoS-Rule-Name	OctetString	
055 QoS-Rule-Report	Grouped	
056 Security-Parameter-Index	OctetString	
057 Flow-Label	OctetString	
058 Flow-Information	Grouped	
059 Packet-Filter-Content	IPFilterRule	
060 Packet-Filter-Identifier	OctetString	
061 Packet-Filter-Information	Grouped	
062 Packet-Filter-Operation	Enumerated	
063 Resource-Allocation-Notification	Enumerated	
064 Session-Linking-Indicator	Enumerated	
065 PDN-Connection-ID	OctetString	
066 Monitoring-Key	OctetString	
067 Usage-Monitoring-Information	Grouped	
068 Usage-Monitoring-Information	Enumerated	
	Enumerated	
069 Usage-Monitoring-Report		
070 Usage-Monitoring-Support	Enumerated	
071 CSG-Information-Reporting	Enumerated	
072 Packet-Filter-Usage	Enumerated	
073 Charging-Correlation-Indicator	Enumerated	
074 QoS-Rule-Base-Name	UTF8String	
075 Routing-Rule-Remove	Grouped	
076 Routing-Rule-Definition	Grouped	
077 Routing-Rule-Identifier	OctetString	
078 Routing-Filter	Grouped	
079 Routing-IP-Address	Address	
080 Flow-Direction	Enumerated	
081 Routing-Rule-Install	Grouped	
085 Redirect-Information	Grouped	
086 Redirect- Support	Enumerated	
087 TDF-Information	Grouped	
088 TDF-Application-Identifier	Ontat Ctuins as	
	OctetString	
	DiameterIdentity	
089 TDF-Destination-Host		
089 TDF-Destination-Host 090 TDF-Destination-Realm	DiameterIdentity	
089 TDF-Destination-Host 090 TDF-Destination-Realm 091 TDF-IP-address	DiameterIdentity DiameterIdentity Address	
089 TDF-Destination-Host 090 TDF-Destination-Realm 091 TDF-IP-address 092 ADC-Rule-Install	DiameterIdentity DiameterIdentity Address Grouped	
089 TDF-Destination-Host 090 TDF-Destination-Realm 091 TDF-IP-address 092 ADC-Rule-Install 093 ADC-Rule-Remove	DiameterIdentity DiameterIdentity Address Grouped Grouped	
089 TDF-Destination-Host 090 TDF-Destination-Realm 091 TDF-IP-address 092 ADC-Rule-Install 093 ADC-Rule-Remove 094 ADC-Rule-Definition	DiameterIdentity DiameterIdentity Address Grouped Grouped Grouped	
089 TDF-Destination-Host 090 TDF-Destination-Realm 091 TDF-IP-address 092 ADC-Rule-Install 093 ADC-Rule-Remove 094 ADC-Rule-Definition 095 ADC-Rule-Base-Name	DiameterIdentity DiameterIdentity Address Grouped Grouped Grouped UTF8String	
089 TDF-Destination-Host 090 TDF-Destination-Realm 091 TDF-IP-address 092 ADC-Rule-Install 093 ADC-Rule-Remove 094 ADC-Rule-Definition 095 ADC-Rule-Base-Name 096 ADC-Rule-Name	DiameterIdentity DiameterIdentity Address Grouped Grouped Grouped UTF8String OctetString	
089 TDF-Destination-Host 090 TDF-Destination-Realm 091 TDF-IP-address 092 ADC-Rule-Install 093 ADC-Rule-Remove 094 ADC-Rule-Definition 095 ADC-Rule-Base-Name 096 ADC-Rule-Name 097 ADC-Rule-Report	DiameterIdentity DiameterIdentity Address Grouped Grouped Grouped UTF8String OctetString Grouped	
089 TDF-Destination-Host 090 TDF-Destination-Realm 091 TDF-IP-address 092 ADC-Rule-Install 093 ADC-Rule-Remove 094 ADC-Rule-Definition 095 ADC-Rule-Base-Name 096 ADC-Rule-Name 097 ADC-Rule-Report 098 Application-Detection-Information	DiameterIdentity DiameterIdentity Address Grouped Grouped Grouped UTF8String OctetString Grouped Grouped	
089 TDF-Destination-Host 090 TDF-Destination-Realm 091 TDF-IP-address 092 ADC-Rule-Install 093 ADC-Rule-Remove 094 ADC-Rule-Definition 095 ADC-Rule-Base-Name 096 ADC-Rule-Name 097 ADC-Rule-Report 098 Application-Detection-Information 099 PS-to-CS-Session-Continuity	DiameterIdentity DiameterIdentity Address Grouped Grouped Grouped UTF8String OctetString Grouped	
089 TDF-Destination-Host 090 TDF-Destination-Realm 091 TDF-IP-address 092 ADC-Rule-Install 093 ADC-Rule-Remove 094 ADC-Rule-Definition 095 ADC-Rule-Base-Name 096 ADC-Rule-Name 097 ADC-Rule-Report 098 Application-Detection-Information 099 PS-to-CS-Session-Continuity Iote: The AVP codes from 1082 to 1084 are reserved for TS 29.212	DiameterIdentity DiameterIdentity Address Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Enumerated	
089 TDF-Destination-Host 090 TDF-Destination-Realm 091 TDF-IP-address 092 ADC-Rule-Install 093 ADC-Rule-Remove 094 ADC-Rule-Definition 095 ADC-Rule-Base-Name 096 ADC-Rule-Name 097 ADC-Rule-Report 098 Application-Detection-Information 099 PS-to-CS-Session-Continuity Iote: The AVP codes from 1082 to 1084 are reserved for TS 29.212 100 Served-User-Identity	DiameterIdentity DiameterIdentity Address Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Grouped Grouped Grouped Grouped	
TDF-Destination-Host  090 TDF-Destination-Realm  091 TDF-IP-address  092 ADC-Rule-Install  093 ADC-Rule-Remove  094 ADC-Rule-Definition  095 ADC-Rule-Base-Name  096 ADC-Rule-Name  097 ADC-Rule-Report  098 Application-Detection-Information  099 PS-to-CS-Session-Continuity  Iote: The AVP codes from 1082 to 1084 are reserved for TS 29.212  100 Served-User-Identity  101 VASP-ID	DiameterIdentity DiameterIdentity Address Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Grouped Grouped Grouped Grouped Enumerated	00.440.60
TDF-Destination-Host TDF-Destination-Realm TDF-IP-address TDF-IP-a	DiameterIdentity DiameterIdentity Address Grouped Grouped UTF8String OctetString Grouped Grouped Grouped Grouped Grouped UTF8String UTF8String	29.140 [16
TDF-Destination-Host  090 TDF-Destination-Realm  091 TDF-IP-address  092 ADC-Rule-Install  093 ADC-Rule-Remove  094 ADC-Rule-Definition  095 ADC-Rule-Base-Name  096 ADC-Rule-Name  097 ADC-Rule-Report  098 Application-Detection-Information  099 PS-to-CS-Session-Continuity  Iote: The AVP codes from 1082 to 1084 are reserved for TS 29.212  100 Served-User-Identity  101 VASP-ID	DiameterIdentity DiameterIdentity Address Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Grouped Grouped Grouped Grouped Enumerated	29.140 [16

	Initial-Recipient-Address	Grouped	
	Result-Recipient-Address	Grouped	
	Sequence-Number	Unsigned32	
	Recipient-Address	UTF8String	
1109	Routeing-Address	UTF8String	
1110	Originating-Interface	Enumerated	
1111	Delivery-Report	Enumerated	
1112	Read-Reply	Enumerated	
	Sender-Visibility	Enumerated	
1114	Service-Key	UTF8String	
	Billing-Information	UTF8String	
1116	Status	Grouped	
	Status-Code	UTF8String	
	Status-Text	UTF8String	
	The AVP codes from 1119 to 1199 are reserved for TS 29.140		
	Domain-Name	UTF8String	
	Recipient-Address	Grouped	
	Submission-Time	Time	
	MM-Content-Type	Grouped	
	Type-Number	Enumerated	
	Additional-Type-Information	UTF8String	
	Content-Size	Unsigned32	
	Additional-Content-Information	Grouped	
	Additional-Content-Information  Addressee-Type	Enumerated	
	Priority	Enumerated	
	Message-ID	UTF8String	
	Message-Type	Enumerated	
	Message-Type Message-Size	Unsigned32	
	Message-Class Class-Identifier	Grouped	
		Enumerated	
	Token-Text	UTF8String	
	Delivery-Report-Requested	Enumerated	
	Adaptations Applied ID	Enumerated	
	Applic-ID	UTF8String	
	Aux-Applic-Info	UTF8String	
	Content-Class	Enumerated	
	DRM-Content	Enumerated	
	Read-Reply-Report-Requested	Enumerated	
	Reply-Applic-ID	UTF8String	
	File-Repair-Supported	Enumerated	32.299 [5]
	MBMS-User-Service-Type	Enumerated	02.200 [0]
	Unit-Quota-Threshold	Unsigned32	
	PDP-Address	Address	
	SGSN-Address	Address	
	PoC-Session-Id	UTF8String	
	Deferred-Location-Even-Type	UTF8String	
	LCS-APN	UTF8String	
	LCS-Client-Id	Grouped	
	LCS-Client-Dialed-By-MS	UTF8String	
	LCS-Client-External-ID	UTF8String	
1235	LCS-Client-Name	Grouped	
1236	LCS-Data-Coding-Scheme	UTF8String	
	LCS-Format-Indicator	Enumerated	
	LCS-Name-String	UTF8String	
	LCS-Requestor-Id	Grouped	
	LCS-Requestor-Id-String	UTF8String	
	LCS-Client-Type	Enumerated	
	Location-Estimate	OctetString	
	Location-Estimate-Type	Enumerated	
	Location-Type	Grouped	
	Positioning-Data	UTF8String	
	WLAN-Session-Id	UTF8String	
	PDP-Context-Type	Enumerated	
	MMBox-Storage-Requested	Enumerated	
	Service-Specific-Info	Grouped	
1273	Colvino Openino il ilo	Jioupeu	

4050 O-11-1 A	LITEOCHE	
1250 Called-Asserted-Identity	UTF8String	
1251 Requested-Party-Address	UTF8String	
1252 PoC-User-Role	Grouped	
1253 PoC-User-Role-IDs	UTF8String	
1254 PoC-User-Role-info-Units	Enumerated	
1255 Talk-Burst-Exchange	Grouped	
1256 Service-Generic-Information	Grouped	
1257 Service-Specific-Type	Unsigned32	
1258 Event-Charging-TimeStamp	Time	
1259 Participant-Access-Priority	Enumerated	
1260 Participant-Group	Grouped	
1261 PoC-Change-Conditions	Enumerated	
1262 PoC-Change-Time	Time	
1263 Access-Network-Information	OctetString	
1264 Trigger	Grouped	
1265 Base-Time-Interval	Unsigned32	
1266 Envelope	Grouped	
1267 Envelope-End-Time	Time	
1268 Envelope-Reporting	Enumerated	
1269 Envelope-Start-Time	Time	
1270 Time-Quota-Mechanism	Grouped	
1271 Time-Quota-Type	Enumerated	
1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps	Grouped	
1274 SDP-Offer-Timestamp	Time	
1275 SDP-Answer-Timestamp	Time	
1276 AF-Correlation-Information	Grouped	
1277 PoC-Session-Initiation-type		
	Enumerated	
1278 Offline-Charging	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299	311 33 mil	
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	29.272 [21]
1413 Authentication-Info	Grouped	[- 1]
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	
1417 Network-Access-Mode	Enumerated	
1418 HPLMN-ODB	Enumerated	
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
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1425 Operator-Determined-Barring	Unsigned32
1426 Access-Restriction-Data	UTF8String
1427 APN-OI-Replacement	UTF8String
1428 All-APN-Configurations-Included-Indicator	Enumerated
1429 APN-Configuration-Profile	Grouped
1430 APN-Configuration	Grouped
1431 EPS-Subscribed-QoS-Profile	Grouped
1432 VPLMN-Dynamic-Address-Allowed	Enumerated
1433 STN-SR	OctetString
1434 Alert-Reason	Enumerated
1435 AMBR	Grouped
1436 CSG-Subscription-Data	Grouped
1437 CSG-Id	Unsigned32
1438 PDN-GW-Allocation-Type	Enumerated
1439 Expiration-Date	Time
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32
1441 IDA-Flags	Unsigned32
1442 PUA-Flags	Unsigned32
1443 NOR-Flags	Unsigned32
1443 NOK-Flags 1444 User-Id	UTF8String
	Enumerated
1445 Equipment-Status	
1446 Regional-Subscription-Zone-Code	OctetString
1447 RAND	OctetString
1448 XRES	OctetString
1449 AUTN	OctetString
1450 KASME	OctetString
1451 Reserved	
1452 Trace-Collection-Entity	Address
1453 Kc	OctetString
1454 SRES	OctetString
1455 Reserved	-
1456 PDN-Type	Enumerated
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated
1458 Trace-Data	Grouped
1459 Trace-Reference	OctetString
1460 Reserved	-
1461 Reserved	-
1462 Trace-Depth	Enumerated
1463 Trace-NE-Type-List	OctetString
1464 Trace-Interface-List	OctetString
1465 Trace-Event-List	OctetString
1466 OMC-ld	OctetString
1467 GPRS-Subscription-Data	Grouped
1468 Complete-Data-List-Included-Indicator	Enumerated
1469 PDP-Context	Grouped
1470 PDP-Type	OctetString
1471 3GPP2-MEID	OctetString
1471 Specific-APN-Info	Grouped
1472 Specific-APN-11110 1473 LCS-Info	Grouped
1473 ECS-INIO 1474 GMLC-Number	
	OctetString
1475 CS-PrivacyException	Grouped
1476 SS-Code	OctetString
1477 SS-Status	OctetString
1478 Notification-To-UE-User	Enumerated
1479 External-Client	Grouped
1480 Client-Identity	OctetString
1481 GMLC-Restriction	Enumerated
1482 PLMN-Client	Enumerated
1483 Service-Type	Grouped
1484 ServiceTypeIdentity	Unsigned32
1485 MO-LR	Grouped
1486 Teleservice-List	Grouped
1487 TS-Code	Enumerated
1488 Call-Barring-Info	Grouped
1489 SGSN-Number	OctetString
1.00   0.00   1.10   1.10	Joiototing

1490 IDR-Flags	Unsigned32	
1491 ICS-Indicator	Enumerated	
1492 IMS-Voice-Over-PS-Sessions-Supported	Enumerated	
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated	
1494 Last-UE-Activity-Time	Time	
1495 EPS-User-State	Grouped	
1496 EPS-Location-Information	Grouped	
1497 MME-User-State 1498 SGSN-User-State	Grouped	
1499 User-State	Grouped Enumerated	
1433   OSE1-State	Enumerateu	
1500 Non-3GPP-User-Data	Grouped	
1501 Non-3GPP-IP-Access	Enumerated	
1502 Non-3GPP-IP-Access-APN	Enumerated	
1503 AN-Trusted	Enumerated	
1504 ANID	UTF8String	
1505 Trace-Info	Grouped	
1506 MIP-FA-RK	OctetString	
1507 MIP-FA-RK-SPI	Unsigned32	
1508 PPR-Flags	Unsigned32	
1509 WLAN-Identifier	Grouped	
1510 TWAN-Access-Info	Grouped	
1511 Access-Authorization-Flags	Unsigned32	
1512 TWAN-Default-APN-Context-Id	Unsigned32	
1513 Reserved	-	
1514 Reserved	-	
1515 Reserved	-	
1516 Full-Network-Name	OctetString	
1517 Short-Network-Name	OctetString	29.273 [20]
1518 AAA-Failure-Indication	Unsigned32 Enumerated	
1519 Transport-Access-Type 1520 DER-Flags	Unsigned32	
1521 DEA-Flags	Unsigned32	
1522 RAR-Flags	Unsigned32	
1523 DER-S6b-Flags	Unsigned32	
1524 SSID	UTF8String	
1525 HESSID	UTF8String	
1526 Access-Network-Info	Grouped	
1527 TWAN-Connection-Mode	Unsigned32	
1528 TWAN-Connectivity-Parameters	Grouped	
1529 Connectivity-Flags	Unsigned32	
1530 TWAN-PCÓ	OctetString	
1531 TWAG-CP-Address	Address	
1532 TWAG-UP-Address	UTF8String	
1533 TWAN-S2a-Failure-Cause	Unsigned32	
1534 SM-Back-Off-Timer	Unsigned32	
318   3GPP-AAA-Server-Name	DiameterIdentity	
Note 1: The AVP codes from 1535 to 1599 are reserved for TS 29.273		
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP	TS 29.234 and is now defi	ned in 3GPP TS
29.273 from Rel-12.	0	
1600 MME-Location-Information	Grouped	
1601 SGSN-Location-Information	Grouped	
1602 E-UTRAN-Cell-Global-Identity	OctetString OctetString	
1603 Tracking-Area-Identity 1604 Cell-Global-Identity	OctetString	
1605 Routing-Area-Identity	OctetString	
1606 Location-Area-Identity	OctetString	
1607 Service-Area-Identity	OctetString	29.272 [21]
1608 Geographical-Information	OctetString	20.212 [21]
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	
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1616   MPS-Priority	1645 LIE CDVCC Conchility		
1617   VPLMN-LIPA-Allowed	1615 UE-SRVCC-Capability	Enumerated	
1818   LIPA-Permission			
1619 Subscribed-Periodic-RAU-TAU-Timer			
1620 EX-PDP-Type			
1622   KX-PDP-Address			
1623   Job-Type		-	
1625   List-Of-Measurements	1622 MDT-Configuration	Grouped	
1625   List-Of-Measurements	1623 Job-Type	Enumerated	
1626 Reporting-Trigger	1624 Area-Scope	Grouped	
1626 Reporting-Trigger	1625 List-Of-Measurements	Unsigned32	
1627 Report-Interval	1626 Reporting-Trigger		
1628   Report-Amount			
1629   Event-ThresholdRSRQ			
1630   Lvent-ThresholdRSRQ		-	
Enumerated   Enumerated   Enumerated   1632   Logging-Duration   Enumerated   1632   Logging-Duration   Enumerated   1633   Relay-Node-Indicator   Enumerated   Enumerated   1635   PUR-Flags   Unsigned32   1635   PUR-Flags   Unsigned32   1636   Subscribed-VSRVCC   Enumerated   1637   Equivalent-PLMN-List   Grouped   1638   CLR-Flags   Unsigned32   1639   UVR-Flags   Unsigned32   1640   UVR-Hlags   Unsigned32   1641   VPLMN-CSG-Subscription-Data   Grouped   1642   Time-Zone   UTF8String   1643   AMSISDN   OctetString   1644   Reserved   -			
1632   Logging-Duration			
1633   Relay-Node-Indicator			
1634   MDT-User-Consent			
Hossis   Unsigned32			
1636   Subscribed-VSRVCC		-	
Figure   Grouped			
Figure   Grouped	1636 Subscribed-VSRVCC	Enumerated	
1638   UVR-Flags			
1639   UVA-Flags			
1640   UVA-Flags			
	U U		
1642   Time-Zone			
1643   A-MSISDN			
1644   Reserved			
1645   MME-Number-for-MT-SMS		OctetString	
1646   Reserved		-	
1647   Reserved		OctetString	
1648   SMS-Register-Request   Enumerated   1649   Local-Time-Zone   Grouped   1650   Daylight-Saving-Time   Enumerated   1651   GMLC-Info   Grouped   1652   GMLC-Info   Grouped   1652   GMLC-Name   DiameterIdentity   1653   GMLC-Realm   DiameterIdentity   1654   Subscription-Data-Flags   Unsigned32   1655   Measurement-Period-LTE   Enumerated   1656   Measurement-Period-UMTS   Enumerated   1656   Collection-Period-RRM-LTE   Enumerated   1658   Collection-Period-RRM-UMTS   Enumerated   1659   Positioning-Method   OctetString   1660   Measurement-Quantity   OctetString   1660   Measurement-Quantity   OctetString   1661   Event-Threshold-Event-1F   Integer32   1663   Restoration-Priority   Unsigned32   1664   Seyn-MRE-Identity   UTF8String   1665   SiPTO-Local-Network-Permission   Unsigned32   1666   Coupled-Node-Diameter-ID   DiameterIdentity   1667   WLAN-offloadability-EUTRAN   Unsigned32   1669   WLAN-offloadability-UTRAN   Unsigned32   1669   UTF8String   1000	1646 Reserved	-	
1649   Local-Time-Zone   Grouped     1650   Daylight-Saving-Time   Enumerated     1651   GMLC-Info   Grouped     1652   GMLC-Name   DiameterIdentity     1653   GMLC-Realm   DiameterIdentity     1654   Subscription-Data-Flags   Unsigned32     1655   Measurement-Period-LTE   Enumerated     1656   Measurement-Period-UMTS   Enumerated     1657   Collection-Period-RRM-LTE   Enumerated     1658   Collection-Period-RRM-UMTS   Enumerated     1659   Positioning-Method   OctetString     1660   Measurement-Quantity   OctetString     1661   Event-Threshold-Event-1F   Integer32     1662   Event-Threshold-Event-11   Integer32     1663   Restoration-Priority   Unsigned32     1664   SGs-MME-Identity   UTF8String     1665   SIPTO-Local-Network-Permission   Unsigned32     1666   Coupled-Node-Diameter-ID   DiameterIdentity     1667   WLAN-offloadability-EUTRAN   Unsigned32     1669   WLAN-offloadability-UTRAN   Unsigned32     1669   WLAN-offloadability-UTRAN   Unsigned32     1000   SMS-Information   Grouped     2000   Data-Coding-Scheme   Integer32     2002   Destination-Interface   Grouped     2003   Interface-Port   UTF8String     2006   Interface-Text   UTF8String     2006   Interface-Text   UTF8String     2006   Interface-Text   UTF8String     2007   Interface-Text   UTF8String	1647 Reserved	-	
1649   Local-Time-Zone   Grouped     1650   Daylight-Saving-Time   Enumerated     1651   GMLC-Info   Grouped     1652   GMLC-Name   DiameterIdentity     1653   GMLC-Realm   DiameterIdentity     1654   Subscription-Data-Flags   Unsigned32     1655   Measurement-Period-LTE   Enumerated     1656   Measurement-Period-UMTS   Enumerated     1657   Collection-Period-RRM-LTE   Enumerated     1658   Collection-Period-RRM-UMTS   Enumerated     1659   Positioning-Method   OctetString     1660   Measurement-Quantity   OctetString     1661   Event-Threshold-Event-1F   Integer32     1662   Event-Threshold-Event-11   Integer32     1663   Restoration-Priority   Unsigned32     1664   SGs-MME-Identity   UTF8String     1665   SIPTO-Local-Network-Permission   Unsigned32     1666   Coupled-Node-Diameter-ID   DiameterIdentity     1667   WLAN-offloadability-EUTRAN   Unsigned32     1669   WLAN-offloadability-UTRAN   Unsigned32     1669   WLAN-offloadability-UTRAN   Unsigned32     1000   SMS-Information   Grouped     2000   Data-Coding-Scheme   Integer32     2002   Destination-Interface   Grouped     2003   Interface-Port   UTF8String     2006   Interface-Text   UTF8String     2006   Interface-Text   UTF8String     2006   Interface-Text   UTF8String     2007   Interface-Text   UTF8String	1648 SMS-Register-Request	Enumerated	
1650   Daylight-Saving-Time   Enumerated   1651   GMLC-Info   Grouped   1652   GMLC-Name   DiameterIdentity   1653   GMLC-Realm   DiameterIdentity   1654   Subscription-Data-Flags   Unsigned32   1655   Measurement-Period-LTE   Enumerated   1656   Measurement-Period-UMTS   Enumerated   1657   Collection-Period-RRM-LTE   Enumerated   1658   Collection-Period-RRM-UMTS   Enumerated   1659   Positioning-Method   OcteString   1660   Measurement-Quantity   OcteString   1661   Event-Threshold-Event-1F   Integer32   1662   Event-Threshold-Event-1I   Integer32   1663   Restoration-Priority   Unsigned32   1664   SGs-MME-Identity   UTF8String   1665   SIPTO-Local-Network-Permission   Unsigned32   1666   Coupled-Node-Diameter-ID   DiameterIdentity   1667   WLAN-offloadability   Grouped   1668   WLAN-offloadability-UTRAN   Unsigned32   1669   WLAN-offloadability-UTRAN   Unsigned32   1600   SMS-Information   Grouped   2001   Data-Coding-Scheme   Integer32   2002   Destination-Interface   Grouped   2003   Interface-Port   UTF8String   2005   Interface-Port   UTF8String   2006   Interface-Port   UTF8String   2007   Interface-Port   UTF8String   2008   Interface-Port   UTF8String		Grouped	
1651   GMLC-Info			
1652   GMLC-Name		Grouped	
1653 GMLC-Realm			
1654   Subscription-Data-Flags			
1655   Measurement-Period-LTE		•	
1656   Measurement-Period-UMTS			
1657   Collection-Period-RRM-LTE			
1658   Collection-Period-RRM-UMTS   Enumerated     1659   Positioning-Method   OctetString     1660   Measurement-Quantity   OctetString     1661   Event-Threshold-Event-1F   Integer32     1662   Event-Threshold-Event-1I   Integer32     1663   Restoration-Priority   Unsigned32     1664   SGs-MME-Identity   UTF8String     1665   SIPTO-Local-Network-Permission   Unsigned32     1666   Coupled-Node-Diameter-ID   DiameterIdentity     1667   WLAN-offloadability   Grouped     1668   WLAN-offloadability-EUTRAN   Unsigned32     1669   WLAN-offloadability-UTRAN   Unsigned32     1069   WLAN-offloadability-UTRAN   Unsigned32     1069   WLAN-offloadability-UTRAN   Unsigned32     1069   WLAN-offloadability-UTRAN   Unsigned32     1069   ULAN-offloadability-UTRAN   Unsigned32     1069   ULAN-offloadability-UTRAN   Unsigned32     1069   ULAN-offloadability-UTRAN   Unsigned32     1069   ULAN-offloadability-UTRAN   Unsigned32     1060   Ulan-offload			
1659   Positioning-Method   OctetString   1660   Measurement-Quantity   OctetString   1661   Event-Threshold-Event-1F   Integer32   1662   Event-Threshold-Event-1I   Integer32   1663   Restoration-Priority   Unsigned32   1664   SGs-MME-Identity   UTF8String   Unsigned32   1665   SIPTO-Local-Network-Permission   Unsigned32   1666   Coupled-Node-Diameter-ID   DiameterIdentity   Grouped   1668   WLAN-offloadability   Grouped   1668   WLAN-offloadability-EUTRAN   Unsigned32   1669   WLAN-offloadability-UTRAN   Unsigned32   WLAN-offloadability-UTRAN   Uns			
1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String1665SIPTO-Local-Network-PermissionUnsigned321666Coupled-Node-Diameter-IDDiameterIdentity1667WLAN-offloadabilityGrouped1668WLAN-offloadability-EUTRANUnsigned32Note: The AVP codes from 1670 to 1699 are reserved for TS 29.272.2000SMS-InformationGrouped2001Data-Coding-SchemeInteger322002Destination-InterfaceGrouped2003Interface-IdUTF8String2004Interface-PortUTF8String2005Interface-TextUTF8String			
1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String1665SIPTO-Local-Network-PermissionUnsigned321666Coupled-Node-Diameter-IDDiameterIdentity1667WLAN-offloadabilityGrouped1668WLAN-offloadability-EUTRANUnsigned321669WLAN-offloadability-UTRANUnsigned32Note: The AVP codes from 1670 to 1699 are reserved for TS 29.272.Grouped2000SMS-InformationGrouped2001Data-Coding-SchemeInteger322002Destination-InterfaceGrouped2003Interface-IdUTF8String2004Interface-PortUTF8String2005Interface-TextUTF8String			
1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String1665SIPTO-Local-Network-PermissionUnsigned321666Coupled-Node-Diameter-IDDiameterIdentity1667WLAN-offloadabilityGrouped1668WLAN-offloadability-EUTRANUnsigned321669WLAN-offloadability-UTRANUnsigned32Note: The AVP codes from 1670 to 1699 are reserved for TS 29.272.Grouped2000SMS-InformationGrouped2001Data-Coding-SchemeInteger322002Destination-InterfaceGrouped2003Interface-IdUTF8String2004Interface-PortUTF8String2005Interface-TextUTF8String	1660 Measurement-Quantity	OctetString	
Integer32   Integer33   Integer33   Integer33   Integer34   Integer35   Interface-Text   Integer36   Integer37   Integer37   Integer38   Integer38   Integer38   Integer38   Integer38   Integer38   Integer38   Integer38   Integer39   Integer38   Integer39	1661 Event-Threshold-Event-1F	Integer32	
1663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String1665SIPTO-Local-Network-PermissionUnsigned321666Coupled-Node-Diameter-IDDiameterIdentity1667WLAN-offloadabilityGrouped1668WLAN-offloadability-EUTRANUnsigned321669WLAN-offloadability-UTRANUnsigned32Note: The AVP codes from 1670 to 1699 are reserved for TS 29.272.Grouped2000SMS-InformationGrouped2001Data-Coding-SchemeInteger322002Destination-InterfaceGrouped2003Interface-IdUTF8String2004Interface-PortUTF8String2005Interface-TextUTF8String			
1664SGs-MME-IdentityUTF8String1665SIPTO-Local-Network-PermissionUnsigned321666Coupled-Node-Diameter-IDDiameterIdentity1667WLAN-offloadabilityGrouped1668WLAN-offloadability-EUTRANUnsigned321669WLAN-offloadability-UTRANUnsigned32Note: The AVP codes from 1670 to 1699 are reserved for TS 29.272.Grouped2000SMS-InformationGrouped2001Data-Coding-SchemeInteger322002Destination-InterfaceGrouped2003Interface-IdUTF8String2004Interface-PortUTF8String2005Interface-TextUTF8String			
1665SIPTO-Local-Network-PermissionUnsigned321666Coupled-Node-Diameter-IDDiameterIdentity1667WLAN-offloadabilityGrouped1668WLAN-offloadability-EUTRANUnsigned321669WLAN-offloadability-UTRANUnsigned32Note: The AVP codes from 1670 to 1699 are reserved for TS 29.272.2000SMS-InformationGrouped2001Data-Coding-SchemeInteger322002Destination-InterfaceGrouped2003Interface-IdUTF8String2004Interface-PortUTF8String2005Interface-TextUTF8String			
1666Coupled-Node-Diameter-IDDiameterIdentity1667WLAN-offloadabilityGrouped1668WLAN-offloadability-EUTRANUnsigned321669WLAN-offloadability-UTRANUnsigned32Note: The AVP codes from 1670 to 1699 are reserved for TS 29.272.2000SMS-InformationGrouped2001Data-Coding-SchemeInteger322002Destination-InterfaceGrouped2003Interface-IdUTF8String2004Interface-PortUTF8String2005Interface-TextUTF8String			
1667WLAN-offloadabilityGrouped1668WLAN-offloadability-EUTRANUnsigned321669WLAN-offloadability-UTRANUnsigned32Note: The AVP codes from 1670 to 1699 are reserved for TS 29.272.2000SMS-InformationGrouped2001Data-Coding-SchemeInteger322002Destination-InterfaceGrouped2003Interface-IdUTF8String2004Interface-PortUTF8String2005Interface-TextUTF8String		Diameter Identify:	
1668         WLAN-offloadability-EUTRAN         Unsigned32           1669         WLAN-offloadability-UTRAN         Unsigned32           Note: The AVP codes from 1670 to 1699 are reserved for TS 29.272.         Grouped           2001         SMS-Information         Grouped           2001         Data-Coding-Scheme         Integer32           2002         Destination-Interface         Grouped           2003         Interface-Id         UTF8String           2004         Interface-Port         UTF8String           2005         Interface-Text         UTF8String			
1669         WLAN-offloadability-UTRAN         Unsigned32           Note: The AVP codes from 1670 to 1699 are reserved for TS 29.272.         Grouped           2000         SMS-Information         Grouped           2001         Data-Coding-Scheme         Integer32           2002         Destination-Interface         Grouped           2003         Interface-Id         UTF8String           2004         Interface-Port         UTF8String           2005         Interface-Text         UTF8String			
Note: The AVP codes from 1670 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-Port         UTF8String           2005 Interface-Text         UTF8String			
2000         SMS-Information         Grouped           2001         Data-Coding-Scheme         Integer32           2002         Destination-Interface         Grouped           2003         Interface-Id         UTF8String           2004         Interface-Port         UTF8String           2005         Interface-Text         UTF8String		Unsigned32	
2001 Data-Coding-Scheme         Integer32           2002 Destination-Interface         Grouped           2003 Interface-Id         UTF8String           2004 Interface-Port         UTF8String           2005 Interface-Text         UTF8String		<del></del>	
2002         Destination-Interface         Grouped           2003         Interface-Id         UTF8String           2004         Interface-Port         UTF8String           2005         Interface-Text         UTF8String			
2002         Destination-Interface         Grouped           2003         Interface-Id         UTF8String           2004         Interface-Port         UTF8String           2005         Interface-Text         UTF8String		Integer32	
2003 Interface-Id         UTF8String           2004 Interface-Port         UTF8String           2005 Interface-Text         UTF8String			
2004 Interface-Port         UTF8String         32.299 [5]           2005 Interface-Text         UTF8String			
2005 Interface-Text UTF8String			32 299 [5]
			02.200 [O]
LZ VA O DIDECTA CELLA VOE		o ir ooning	
	2000 IIIILEITAUE-TVDE	Enumerated	
		Enumerated	
2008   Originating-SCCP-Address   Address	2007 SM-Message-Type	Enumerated	

2009 Originator-Interface	Grouped	
2010 Recipient-SCCP-Address	Address Enumerated	
2011 Reply-Path-Requested		
2012 SM-Discharge-Time 2013 SM-Protocol-ID	Time	
2013 SM-Protocol-ID 2014 SM-Status	OctetString OctetString	
2014 SM-Status 2015 SM-User-Data-Header	OctetString	
2016 SMS-Node	Enumerated	
2017 SMSC-Address	Address	
2017 SMSC-Address 2018 Client-Address	Address	
2019 Number-of-Messages-Sent	Unsigned32	
2020 Low-Balance-Indication	Enumerated	
2021 Remaining-Balance 2022 Refund-Information	Grouped OctetString	
	UTF8String	
2023 Carrier-Select-Routing-Information		
2024 Number-Portability-Routing-Information	UTF8String	
2025 PoC-Event-Type	Enumerated	
2026 Recipient-Info	Grouped	
2027 Originator-Received-Address	Grouped	
2028 Recipient-Received-Address	Grouped	
2029 SM-Service-Type	Enumerated	
2030 MMTel-Information	Grouped	
2031 MMTel-Sservice-Type	Unsigned32	
2032 Service-Mode	Unsigned32	
2033 Subscriber-Role	Enumerated	
2034 Number-Of-Diversions	Unsigned32	
2035 Associated-Party-Address	UTF8String	
2036 SDP-Type	Enumerated	
2037 Change-Condition	Integer32	
2038 Change-Time	Time	
2039 Diagnostics	Integer32	
2040 Service-Data-Container	Grouped	
2041 Start-Time	Time	
2042 Stop-Time	Time	
2043 Time-First-Usage	Time	
2044 Time-Last-Usage	Time	
2045 Time-Usage	Unsigned32	
2046 Traffic-Data-Volumes	Grouped	
2047 Serving-Node-Type	Enumerated	
2048 Supplementary-Service	Grouped	
2049 Participant-Action-Type	Enumerated	
2050 PDN-Connection-Charging-Id	Unsigned32	
2051 Dynamic-Address-Flag	Enumerated	
2052 Accumulated-Cost	Grouped	
2053 AoC-Cost-Information	Grouped	
2054 AoC-Information	Grouped	
2055 AoC-Request-Type	Enumerated	
2056 Current-Tariff	Grouped	
2057 Next-Tariff	Grouped	
2058 Rate-Element	Grouped	
2059 Scale-Factor	Grouped	
2060 Tariff-Information	Grouped	
2061 Unit-Cost	Grouped	
2062 Incremental-Cost	Grouped	
2063 Local-Sequence-Number	Unsigned32	
2064 Node-Id	UTF8String	
2065 SGW-Change	Enumerated	
2066 Charging-Characteristic-Selection-Mode	Enumerated	
2067 SGW-Address	Address	
2068 Dynamic-Address-Flag-Extension	Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.29		
2100 reserved	-	
2101 Application-Server-ID	UTF8String	
2102 Application-Service-Type	Enumerated	32.299 [5]
2103 Application-Session-ID	Unsigned32	
2 100 p application occolon-in	Onaignedaz	

2104 Delivery-Status	UTF8String	
2105 reserved	-	
2106 reserved	-	
2107 reserved	-	
2108 reserved	-	
2109 reserved	-	
2110 IM-Information	Grouped	
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112 Number-Of-Messages-Successfully-Sent	Unsigned32	
2113 Total-Number-Of-Messages-Exploded	Unsigned32	
2114 Total-Number-Of-Messages-Sent	Unsigned32	
2115 DCD-Information	Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String	
2118   Charge-Reason-Code     Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299	Enumerated	
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
2202 Subsession-Id	Unsigned32	
2203 Subsession-Operation	Enumerated	
2204 Multiple-BBERF-Action	Enumerated	29.215 [22]
2205 UE-Local-IPv6-Prefix	OctetString	[22]
2206 DRA-Deployment	Enumerated	
2207 PCRF-Address	DiameterIdentity	
2208 DRA-Binding	Enumerated	
Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215	<u> </u>	
2300 reserved	-	
2301 SIP-Request-Timestamp-Fraction	Unsigned32	
2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2303 Online-Charging-Flag	Enumerated	
2304 CUG-Information	OctetString	
2305 Real-Time-Tariff-Information	Grouped	
2306 Tariff-XML	UTF8String	
2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
2309 Account-Expiration	Time	
2310 AoC-Format	Enumerated	00 000 [5]
2311 AoC-Service	Enumerated	32.299 [5]
2312 AoC-Service-Obligatory-Type	Grouped	
2313 AoC-Service-Type 2314 AoC-Subscription-Information	Enumerated Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	- Unsigned32	
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator	Enumerated	
Note: The AVP codes from 2323 to 2399 are reserved for TS 32.299	•	
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets	Unsigned32	
2405 GMLC-Address	Address	29.173 [25]
2406 Additional-Serving-Node	Grouped	20.170 [20]
2407 PPR-Address	Address	
2408 MME-Realm	DiameterIdentity	
2409 SGSN-Name	DiameterIdentity	
2410 SGSN-Realm	DiameterIdentity	
2411 RIA-Flags	Unsigned32	
Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173	Enumorated	
2500 Location-Type 2501 LCS-EPS-Client-Name	Enumerated Grouped	29.172 [24]
2001  LOG-EF O-CHEHLINAINE	Groupeu	

2606 Note: 2700 2701	Transcoder-Inserted-Indicator PDP-Address-Prefix-Length The AVP codes from 2607 to 2699 are reserved for TS 32.299 Not allocated Transit-IOI-List Status	Enumerated Unsigned32  - UTF8String Enumerated	32.299 [5]
2606 Note: 2700	PDP-Address-Prefix-Length The AVP codes from 2607 to 2699 are reserved for TS 32.299 Not allocated	Unsigned32	
2606 Note:	PDP-Address-Prefix-Length The AVP codes from 2607 to 2699 are reserved for TS 32.299	Unsigned32	
2606	PDP-Address-Prefix-Length		
	Transcador Incortad Indicator		
	Local-GW-Inserted-Indicator	Enumerated	
	IP-Realm-Default-Indicator	Enumerated	32.299 [5]
	Low-Priority-Indicator	Enumerated	00 000 [5]
	IMS-Application-Reference-Identifier	UTF8String	
	reserved	-	
	The AVP codes from 2554 to 2599 are reserved for TS 29.172		
	Cell-Portion-ID	Unsigned32	
	ESMLC-Cell-Info	Grouped	
2551	Prioritized-List-Indicator	Enumerated	
	Periodic-Location-Support-Indicator	Enumerated	
	LRA-Flags	Unsigned32	
	Termination-Cause	Unsigned32	
	Deferred-MT-LR-Data	Grouped	
	PLA-Flags	Unsigned32	
	PLR-Flags	Unsigned32	
	PLMN-ID-List	Grouped	
	Reporting-PLMN-List	Grouped	
	Reporting-Amount Reporting-Interval	Unsigned32	
	Reporting-Amount	Unsigned32	
	Periodic-LDR-Information	Grouped	
	Interval-Time	Unsigned32	
	Occurrence-Info	Enumerated	
	Area-I ype Area-Identification	Grouped	
	Area Area-Type	Unsigned32	
2534	Area-Definition	Grouped Grouped	
	Area Definition	Grouped	
	Deferred-Location-Type  Area Event Info	Unsigned32	
	LCS-Reference-Number	OctetString	
	LRR-Flags	Unsigned32	
	UTRAN-GANSS-Positioning-Data	OctetString	
	UTRAN-Positioning-Data	OctetString	
	UTRAN-Positioning-Info	Grouped	
	GERAN-GANSS-Positioning-Data	OctetString	
	GERAN-Positioning-Data	OctetString	
	GERAN-Positioning-Info	Grouped	
	LCS-QoS-Class	Enumerated	
	LCS-Privacy-Check-Session	Grouped	
2521	LCS-Privacy-Check-Non-Session	Grouped	
2520	LCS-Service-Type-ID	Unsigned32	
	Pseudonym-Indicator	Enumerated	
	Location-Event	Enumerated	
	ECGI	OctetString	
	EUTRAN-Positioning-Data	OctetString	
	Velocity-Estimate	OctetString	
	Age-Of-Location-Estimate	Unsigned32	
	Accuracy-Fulfilment-Indicator	Enumerated	
	LCS-Codeword LCS-Privacy-Check	Enumerated	
	Supported-GAD-Shapes LCS-Codeword	Unsigned32 UTF8String	
	Response-Time	Enumerated	
	Velocity-Requested	Enumerated	
	Vertical-Requested	Enumerated	
	Vertical-Accuracy	Unsigned32	
	Horizontal-Accuracy	Unsigned32	
	LCS-QoS	Grouped	
	LCS-Priority	Unsigned32	
	LCS-Requestor-Name	Grouped	

2704 NNI-Type	Enumerated	
2705 Neighbour-Node-Address	Address	
2706 Relationship-Mode	Enumerated	
2707 Session-Direction	Enumerated	
2708 From-Address	UTF8String	
2709 Access-Transfer-Information	Grouped	
2710 Access-Transfer-Type	Enumerated	
2711 Related-IMS-Charging-Identifier	UTF8String	
2712 Related-IMS-Charging-Identifier-Node	Address	
2713 IMS-Visited-Network-Identifier	UTF8String	
2714 TWAN-User-Location-Info	Grouped	
2715 Reserved		
2716 BSSID	UTF8String	
Note: The AVP codes from 2717 to 2799 are reserved for TS 32.299		
2800 Reserved	-	
2801 ADC-Revalidation-Time	Time	
2802 TDF-Application-Instance-Identifier	OctetString	
2803 HeNB-BBF-FQDN	UTF8String	
2804 HeNB-Local-IP-Address	Address	
2805 UE-Local-IP-Address	Address	
2806 UDP-Source-Port	Unsigned32	
2807 CS-Service-Qos-Request-Identifier	OctetString	29.212 [19]
2808 CS-Service-QoS-Request-Operation	Enumerated	_0 (_ [ ( 0 ]
2809 Mute-Notification	Enumerated	
2810 Monitoring-Time	Time	
2811 AN-GW-Status	Enumerated	
2812 User-Location-Info-Time	Grouped	
2813 CS-Service-Resource-Report	Time	
2814 CS-Service-Resource-Failure-Cause	Enumerated	
2815 CS-Service-Resource-Result-Operation	Enumerated	
Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212	1	
2900 reserved 2901 Policy-Counter-Identifier	- Grouped	
2902 Policy-Counter-Status	UTF8String	20 240 [26]
2903 Policy-Counter-Status-Report	Grouped	29.219 [26]
2904 SL-Request-Type	Enumerated	
Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219	Endinerated	
3000 reserved	_	
3001 Device-Action	Grouped	
3002 Device-Notification	Grouped	
3003 Trigger-Data	Grouped	
3004 Payload	OctetString	
3005 Action-Type	Enumerated	
3006 Priority-Indication	Enumerated	29.368 [27]
3007 Reference-Number	Unsigned32	
3008 Request-Status	Enumerated	
3009 Delivery-Outcome	Enumerated	
3010 Application-Port-Identifier	Unsigned32	
3011 Old-Reference-Number	Unsigned32	
3012 Feature-Supported-In-Final-Target	Unsigned32	
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368		
3100 IP-SM-GW-Number	OctetString	
3101 IP-SM-GW-Name	Diameter Identity	
3102 User-Identifier	Grouped	
3103 Service-ID	Enumerated	
3104 SCS-Identity	OctetString	
3105 Service-Parameters	Grouped	29.336 [28]
3106 T4-Parameters	Grouped	
3107 Service-Data	Grouped	
3108 T4-Data	Grouped	
3109 HSS-Cause	Unsigned32	
2110 SID Floor	Uncianadaa	
3110 SIR-Flags	Unsigned32	
3111 External-Identifier	Unsigned32 UTF8String	
		29.337 [29]

Unsigned32	3201	Absent-Subscriber-Diagnostic-T4	Enumerated			
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337			Unsigned32	1		
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337	3203	MTC-Error-Diagnostic	Unsigned32	1		
SM-RP-U    OctetString   Unsigned32   SM-RP-U    OctetString   Unsigned32   SM-Delivery-Failure-Cause   Enumerated   SM-Delivery-Failure-Cause   Enumerated   SM-Delivery-Timer   Unsigned32   SM-Delivery-Timer   Unsigned32   SM-Delivery-Start-Time   Time   SM-Delivery-Start-Time   Enumerated   SM-Delivery-Start-Time   Enumerated   SM-Delivery-Start-Time   Enumerated   SM-RP-MTI   Enumerated   SM-RP-INT   Enumerated   SM-RP-INT   Enumerated   SM-RP-INT   Enumerated   Unsigned32   SM-RP-INT   Enumerated   Unsigned32   SM-RP-INT   Enumerated   SM-RP-INT   Enumerated   SM-RP-INT   Enumerated   SM-RP-INT   Enumerated   SM-RP-INT   SM-RP-INT   Enumerated   SM-RP-INT   SM-Delivery-Not-Intended   Enumerated   Enumerated   SM-RP-INT   SGSN-Absent-User-Subscriber-Diagnostic-SM   Enumerated   SM-Delivery-Outcome   Grouped   SGSN-Absent-User-Subscriber-Diagnostic-SM   Enumerated   SM-Delivery-Outcome   Grouped   SM-RP-INT   Grouped   SGSN-SM-Delivery-Outcome   Grouped   SGSN-SM-Delivery-Outcome   Grouped   SGSN-SM-Delivery-Outcome   Grouped   SM-RP-Integrated   SM-Delivery-Cause   Enumerated   SM-Delivery-Cause   Enumerated   SM-Delivery-Cause   SGSN-SM-Delivery-Outcome   Grouped   SM-RP-Integrated   SM-Delivery-Cause   Enumerated   SM-Delivery-Cause   SM-Delivery-Cause   Enumerated   SM-Delivery-Cause   SM-Delivery-Cause   SM-Delivery-Cause   SM-Delivery-Cause   SM-Delivery-Cause   SM-Delivery-Cause   SM-SM-Delivery-Cause   SM-SM-Delivery-Cause   SM-SM-Delivery-Cause   SM-SM-Delivery-Cause   SM-SM-Delivery-Cause   SM-SM-Delivery-Cause   SM-SM-SM-Delivery-Cause   SM-SM-SM-Delivery-Cause   SM-SM-SM-Delivery-Cause   SM-SM-SM-Delivery-Cause   SM-SM-SM-Delivery-Cause   SM-SM-SM-SM-Delivery-Cause   SM-SM-SM-SM-SM-SM-SM-SM-SM-SM-SM-SM-SM-S			<u> </u>	•		
SM-RP-UI	3300	SC-Address	OctetString			
SM-Delivery- Failure-Cause   Grouped	3301	SM-RP-UI		1		
SM-Enumerated Delivery-Failure-Cause   Enumerated	3302	TFR-Flags	Unsigned32	1		
3305   SM-Diagnostic-Info   OctetString   Unsigned32   SM-Delivery-Timer   Unsigned32   SM-Delivery-Start-Time   Time   Time   SM-Delivery-Start-Time   Enumerated   SM-Delivery-Start-Time   Enumerated   SM-P-MTI   SM-Delivery-Not-Intended   Enumerated   SM-Delivery-Not-Intended   Enumerated   SM-Delivery-Not-Intended   Enumerated   SM-P-MTI   SM	3303	SM-Delivery- Failure-Cause	Grouped	1		
3306   SM-Delivery-Timer	3304	SM-Enumerated-Delivery-Failure-Cause	Enumerated	1		
3306   SM-Delivery-Timer	3305	SM-Diagnostic-Info	OctetString	1		
Sample			Unsigned32	1		
3309   SM-RP-SMEA   OctetString	3307	SM-Delivery-Start-Time	Time	1		
3310   SRR-Flags	3308	SM-RP-MTI	Enumerated	1		
SM-Delivery-Not-Intended   Enumerated	3309	SM-RP-SMEA	OctetString			
3312   MWD-Status   Unsigned32	3310	SRR-Flags	Unsigned32	1		
3313         MME-Absent-User-Subscriber-Diagnostic-SM         Enumerated           3314         MSC-Absent-User-Subscriber-Diagnostic-SM         Enumerated           3315         GSGN-Absent-User-Subscriber-Diagnostic SM         Enumerated           3316         SM-Delivery-Outcome         Grouped           3317         MME-SM-Delivery-Outcome         Grouped           3318         MSC-SM-Delivery-Outcome         Grouped           3319         SGSN-SM-Delivery-Outcome         Grouped           3320         IP-SM-GW-SM-Delivery-Outcome         Grouped           3321         SM-Delivery-Cause         Enumerated           3321         SM-Delivery-Cause         Enumerated           3322         Absent-User-Subscriber-Diagnostic-SM         OctetString           3324         SMSMI-Correlation-ID         Grouped           3325         HSS-ID         UTF8String           3326         Originating-SIP-URI         UTF8String           3327         Destination-SIP-URI         UTF8String           Note: The AVP codes from 3328 to 3399 are reserved for TS 29.338         -           3400         Reason-Header         UTF8String           3402         Instance-Id         UTF8String           Note: The AVP codes from 3403 to 3499 are res	3311	SM-Delivery-Not-Intended	Enumerated	1		
3314   MSC-Absent-User-Subscriber-Diagnostic-SM   Enumerated	3312	MWD-Status	Unsigned32	1		
MSC-Absent-User-Subscriber-Diagnostic-SM	3313	MME-Absent-User-Subscriber-Diagnostic-SM	Enumerated	20, 220, [20]		
3316         SM-Delivery-Outcome         Grouped           3317         MME-SM-Delivery-Outcome         Grouped           3318         MSC-SM-Delivery-Outcome         Grouped           3319         SGSN-SM-Delivery-Outcome         Grouped           3320         IP-SM-GW-SM-Delivery-Outcome         Grouped           3321         SM-Delivery-Cause         Enumerated           3322         Absent-User-Subscriber-Diagnostic-SM         OctetString           3323         RDR-Flags         Unsigned32           3324         SMSMI-Correlation-ID         Grouped           3325         HSS-ID         UTF8String           3326         Originating-SIP-URI         UTF8String           3327         Destination-SIP-URI         UTF8String           Note: The AVP codes from 3328 to 3399 are reserved for TS 29.338         3400           3401         Reason-Header         -           3402         Instance-Id         UTF8String           Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299         -         29.468 [31]	3314	MSC-Absent-User-Subscriber-Diagnostic-SM	Enumerated	29.336 [30]		
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           3323         RDR-Flags         Unsigned32           3324         SMSMI-Correlation-ID         Grouped           3325         HSS-ID         UTF8String           3326         Originating-SIP-URI         UTF8String           3327         Destination-SIP-URI         UTF8String           Note: The AVP codes from 3328 to 3399 are reserved for TS 29.338         3400           3400         reserved         -           3401         Reason-Header         UTF8String           3402         Instance-Id         UTF8String           Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299           3500         reserved         -           3500         reserved	3315	SGSN-Absent-User-Subscriber-Diagnostic SM	Enumerated			
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           3323         RDR-Flags         Unsigned32           3324         SMSMI-Correlation-ID         Grouped           3325         HSS-ID         UTF8String           3326         Originating-SIP-URI         UTF8String           3327         Destination-SIP-URI         UTF8String           Note: The AVP codes from 3328 to 3399 are reserved for TS 29.338         -           3400         reserved         -           3401         Reason-Header         UTF8String           3402         Instance-Id         UTF8String           Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299           3500         reserved         -           29.468 [31]	3316	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           3323         RDR-Flags         Unsigned32           3324         SMSMI-Correlation-ID         Grouped           3325         HSS-ID         UTF8String           3326         Originating-SIP-URI         UTF8String           3327         Destination-SIP-URI         UTF8String           Note: The AVP codes from 3328 to 3399 are reserved for TS 29.338         3400         reserved           3401         Reason-Header         UTF8String         32.299 [5]           3402         Instance-Id         UTF8String         32.299 [5]           Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299         -         29.468 [31]	3317	MME-SM-Delivery-Outcome	Grouped			
3320 IP-SM-GW-SM-Delivery-Outcome         Grouped           3321 SM-Delivery-Cause         Enumerated           3322 Absent-User-Subscriber-Diagnostic-SM         OctetString           3323 RDR-Flags         Unsigned32           3324 SMSMI-Correlation-ID         Grouped           3325 HSS-ID         UTF8String           3326 Originating-SIP-URI         UTF8String           3327 Destination-SIP-URI         UTF8String           Note: The AVP codes from 3328 to 3399 are reserved for TS 29.338         3400 reserved           3401 Reason-Header         UTF8String           3402 Instance-Id         UTF8String           Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299           3500 reserved         -           29.468 [31]	3318	MSC-SM-Delivery-Outcome	Grouped			
3321       SM-Delivery-Cause       Enumerated         3322       Absent-User-Subscriber-Diagnostic-SM       OctetString         3323       RDR-Flags       Unsigned32         3324       SMSMI-Correlation-ID       Grouped         3325       HSS-ID       UTF8String         3326       Originating-SIP-URI       UTF8String         3327       Destination-SIP-URI       UTF8String         Note: The AVP codes from 3328 to 3399 are reserved for TS 29.338       3400       reserved         3401       Reason-Header       UTF8String       32.299 [5]         3402       Instance-Id       UTF8String       32.299 [5]         Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299       -       29.468 [31]	3319	SGSN-SM-Delivery-Outcome	Grouped	]		
3322         Absent-User-Subscriber-Diagnostic-SM         OctetString           3323         RDR-Flags         Unsigned32           3324         SMSMI-Correlation-ID         Grouped           3325         HSS-ID         UTF8String           3326         Originating-SIP-URI         UTF8String           3327         Destination-SIP-URI         UTF8String           Note: The AVP codes from 3328 to 3399 are reserved for TS 29.338         -           3400         reserved         -           3401         Reason-Header         UTF8String           3402         Instance-Id         UTF8String           Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299           3500         reserved         -         29.468 [31]	3320	IP-SM-GW-SM-Delivery-Outcome	Grouped			
3323       RDR-Flags       Unsigned32         3324       SMSMI-Correlation-ID       Grouped         3325       HSS-ID       UTF8String         3326       Originating-SIP-URI       UTF8String         3327       Destination-SIP-URI       UTF8String         Note: The AVP codes from 3328 to 3399 are reserved for TS 29.338       -         3400       reserved       -         3401       Reason-Header       UTF8String         3402       Instance-Id       UTF8String         Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299         3500       reserved       -       29.468 [31]			Enumerated			
3324       SMSMI-Correlation-ID       Grouped         3325       HSS-ID       UTF8String         3326       Originating-SIP-URI       UTF8String         3327       Destination-SIP-URI       UTF8String         Note: The AVP codes from 3328 to 3399 are reserved for TS 29.338       -         3400       reserved       -         3401       Reason-Header       UTF8String         3402       Instance-Id       UTF8String         Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299         3500       reserved       -       29.468 [31]	3322	Absent-User-Subscriber-Diagnostic-SM	OctetString			
3325   HSS-ID			Unsigned32			
3326         Originating-SIP-URI         UTF8String           3327         Destination-SIP-URI         UTF8String           Note: The AVP codes from 3328 to 3399 are reserved for TS 29.338         -           3400         reserved         -           3401         Reason-Header         UTF8String           3402         Instance-Id         UTF8String           Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299         UTF8String           3500         reserved         -         29.468 [31]	3324	SMSMI-Correlation-ID	Grouped			
3327         Destination-SIP-URI         UTF8String           Note: The AVP codes from 3328 to 3399 are reserved for TS 29.338         -           3400         reserved         -           3401         Reason-Header         UTF8String           3402         Instance-Id         UTF8String           Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299         UTF8String           3500         reserved         -           29.468 [31]						
Note: The AVP codes from 3328 to 3399 are reserved for TS 29.338         3400   reserved       -         3401   Reason-Header       UTF8String         3402   Instance-Id       UTF8String         Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299         3500   reserved       -         29.468 [31]	3326	Originating-SIP-URI				
3400   reserved       -         3401   Reason-Header       UTF8String         3402   Instance-Id       UTF8String         Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299         3500   reserved       -         29.468 [31]			UTF8String			
3401       Reason-Header       UTF8String       32.299 [5]         3402       Instance-Id       UTF8String         Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299       29.468 [31]	Note:	Note: The AVP codes from 3328 to 3399 are reserved for TS 29.338				
3402         Instance-Id         UTF8String           Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299         -         29.468 [31]			-			
Note: The AVP codes from 3403 to 3499 are reserved for TS 32.299 3500   reserved   - 29.468 [31]	3401	Reason-Header		32.299 [5]		
3500 reserved - 29.468 [31]			UTF8String			
Note: The AVP codes from 3500 to 3599 are reserved for TS 29.468			-	29.468 [31]		
	Note:	The AVP codes from 3500 to 3599 are reserved for TS 29.468				

## 8 Experimental result codes

The Diameter answer messages must carry either Result-Code AVP or Experimental-Result AVP. The values of Result-Code AVP are controlled by IANA. The Experimental-Result AVP is a grouped AVP containing the Vendor-Id AVP and Experimental-Result-Code AVP, thus the experimental result codes are controlled in a vendor-specific manner.

## 8.1 3GPP specific result codes

The 3GPP specific result codes are always transferred in the Experimental-Result AVP, which has the Vendor-Id with value of 3GPP's vendor identifier. The 3GPP specific result codes shall follow the same classification as defined for the values of Result-Code AVP in IETF RFC 3588 [9]. That means, the result codes are grouped to following ranges:

- 1xxx (Informational)
- 2xxx (Success)
- 4xxx (Transient Failures)
- 5xxx (Permanent Failures)

#### 8.1.1 Informational

The Informational result codes shall use the values from 1001 to 1999 in the Experimental-Result-Code AVP.

Editor's note: No informational result codes have been yet defined in 3GPP.

#### 8.1.2 Success

The Success result codes shall use the values from 2001 to 2999 in the Experimental-Result-Code AVP. The reserved 3GPP specific Success result codes are presented in the following table.

Table 8.1.2: 3GPP specific Success result codes

Experimental	Result text	Specified in the TS
Result Code		
2001	DIAMETER_FIRST_REGISTRATION	
2002	DIAMETER_SUBSEQUENT_REGISTRATION	
2003	DIAMETER_UNREGISTERED_SERVICE	29.229 [2]
2004	DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED	
2005	Deprecated value	
Note: The Experime	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.	
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]
Note: The Experime	ental Result Codes from 2022 to 2040 are reserved for the TS 29.061	
		29.109 [7]
Note: The Experime	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.	

#### 8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS	
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.	
	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]
Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061.	
4141	DIAMETER_PCC_BEARER_EVENT	
4142	DIAMETER_BEARER_EVENT	29.212 [19]
4143	DIAMETER_AN_GW_FAILED	
Note: The Experime	ntal Result Codes from 4144 to 4160 are reserved for the TS 29.212	
		32.299 [5]
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.	
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	20 272 [24]
4182	DIAMETER_ERROR_CAMEL_SUBSCRIPTION_PRESENT	29.272 [21]
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.	
4201	DIAMETER_ERROR_ABSENT_USER	29.173 [25]
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.	
4221	DIAMETER_ERROR_UNREACHABLE_USER	
4222	DIAMETER_ERROR_SUSPENDED_USER	
4223	DIAMETER_ERROR_DETACHED_USER	20 472 [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	DIAMETER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	29.219 [26]
Note: The Experime	ntal Result Codes from 4242 to 4260 are reserved for the TS 29.219.	

#### 8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER ERROR AUTH SCHEME NOT SUPPORTED	29.229 [2]
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	20.220 [2]
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5010	DIAMETER ERROR FEATURE UNSUPPORTED	
		2 20 220
Note: The Expe	erimental Result Codes from 5012 to 5020 are reserved for the TS	
Nata The Fem	in the Decide Order from 5004 to 5040 are recorded from the Ti	32.299 [5]
	erimental Result Codes from 5021 to 5040 are reserved for the TS	32.299.
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC	29.234 [6]
	RIPTION	20.204 [0]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	
Note: The Expe	erimental Result Codes from 5046 to 5060 are reserved for the TS	S 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	
5064	DUPLICATED_AF_SESSION	29.209 [8],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.211 [17] ,
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	29.214 [18]
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
5068	TEMPORARY_NETWORK_FAILURE	
	erimental Result Codes from 5069 to 5080 are reserved for TS 29	).209. TS 29.211
	TS 29.214.	
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER ERROR USER DATA CANNOT BE NOTIFIED	
5105	DIAMETER_ERROR_TRANSPARENT_DATA	29.329 [4]
3103	OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA  DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
		2.00.000
· ·	erimental Result Codes from 5109 to 5119 are reserved for the TS	5 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
5140		S 29.061.
	erimental Result Codes from 5124 to 5139 are reserved for the TS	3 29.061.
5141	erimental Result Codes from 5124 to 5139 are reserved for the TS DIAMETER_ERROR_INITIAL_PARAMETERS	S 29.061.
5141 5142	erimental Result Codes from 5124 to 5139 are reserved for the TS DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT	S 29.061.
5142	erimental Result Codes from 5124 to 5139 are reserved for the TS DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT	S 29.061.
5142 5143	erimental Result Codes from 5124 to 5139 are reserved for the TS DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	S 29.061.
5142	Primental Result Codes from 5124 to 5139 are reserved for the TS DIAMETER_ERROR_INITIAL_PARAMETERS DIAMETER_ERROR_TRIGGER_EVENT DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	<u>S 29.061.</u> 29.212 [19]
5142 5143 5144	Primental Result Codes from 5124 to 5139 are reserved for the TS  DIAMETER_ERROR_INITIAL_PARAMETERS  DIAMETER_ERROR_TRIGGER_EVENT  DIAMETER_PCC_RULE_EVENT  DIAMETER_ERROR_BEARER_NOT_AUTHORIZED  DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D	
5142 5143 5144 5145	Primental Result Codes from 5124 to 5139 are reserved for the TS  DIAMETER_ERROR_INITIAL_PARAMETERS  DIAMETER_ERROR_TRIGGER_EVENT  DIAMETER_PCC_RULE_EVENT  DIAMETER_ERROR_BEARER_NOT_AUTHORIZED  DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE  D  DIAMETER_QOS_RULE_EVENT	
5142 5143 5144 5145 5146	Primental Result Codes from 5124 to 5139 are reserved for the TS  DIAMETER_ERROR_INITIAL_PARAMETERS  DIAMETER_ERROR_TRIGGER_EVENT  DIAMETER_PCC_RULE_EVENT  DIAMETER_ERROR_BEARER_NOT_AUTHORIZED  DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE  D  DIAMETER_QOS_RULE_EVENT  reserved	
5142 5143 5144 5145 5146 5147	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE  DIAMETER_QOS_RULE_EVENT  DIAMETER_ERROR_TRIGGER_EVENT  DIAMETER_ERROR_BEARER_NOT_AUTHORIZED  DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE  DIAMETER_QOS_RULE_EVENT  reserved  DIAMETER_ERROR_CONFLICTING_REQUEST	
5142 5143 5144 5145 5146 5147 5148	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE  DIAMETER_ERROR_TRUE_EVENT  DIAMETER_ERROR_BEARER_NOT_AUTHORIZED  DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE  DIAMETER_QOS_RULE_EVENT  Teserved  DIAMETER_ERROR_CONFLICTING_REQUEST  DIAMETER_ADC_RULE_EVENT	29.212 [19]
5142 5143 5144 5145 5146 5147 5148 Note: The Expe	Primental Result Codes from 5124 to 5139 are reserved for the TS  DIAMETER_ERROR_INITIAL_PARAMETERS  DIAMETER_ERROR_TRIGGER_EVENT  DIAMETER_PCC_RULE_EVENT  DIAMETER_ERROR_BEARER_NOT_AUTHORIZED  DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE  D  DIAMETER_QOS_RULE_EVENT  reserved  DIAMETER_ERROR_CONFLICTING_REQUEST  DIAMETER_ADC_RULE_EVENT  primental Result Codes from 5149 to 5159 are reserved for the TS	29.212 [19]
5142 5143 5144 5145 5146 5147 5148 Note: The Expe	Primental Result Codes from 5124 to 5139 are reserved for the TS  DIAMETER_ERROR_INITIAL_PARAMETERS  DIAMETER_ERROR_TRIGGER_EVENT  DIAMETER_PCC_RULE_EVENT  DIAMETER_ERROR_BEARER_NOT_AUTHORIZED  DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE  D  DIAMETER_QOS_RULE_EVENT  reserved  DIAMETER_ERROR_CONFLICTING_REQUEST  DIAMETER_ADC_RULE_EVENT  erimental Result Codes from 5149 to 5159 are reserved for the TS  DIAMETER_ERROR_IMPI_UNKNOWN	29.212 [19] S 29.212.
5142 5143 5144 5145 5146 5147 5148 Note: The Expe	Primental Result Codes from 5124 to 5139 are reserved for the TS  DIAMETER_ERROR_INITIAL_PARAMETERS  DIAMETER_ERROR_TRIGGER_EVENT  DIAMETER_PCC_RULE_EVENT  DIAMETER_ERROR_BEARER_NOT_AUTHORIZED  DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE  D  DIAMETER_QOS_RULE_EVENT  reserved  DIAMETER_ERROR_CONFLICTING_REQUEST  DIAMETER_ADC_RULE_EVENT  primental Result Codes from 5149 to 5159 are reserved for the TS	29.212 [19]

Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109.	Note: The Eve	primontal Basult Codes from 5404 to 5410 are recorded for the T	2 20 100
S421   DIAMETER_ERROR_RAT_NOT_ALLOWED   5422   DIAMETER_ERROR_EQUIPMENT_UNKNOWN   5423   DIAMETER_ERROR_EQUIPMENT_UNKNOWN   5423   DIAMETER_ERROR_EQUIPMENT_UNKNOWN   5424   DIAMETER_ERROR_EQUIPMENT_UNKNOWN   5425   DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI   ON   5450   DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI   ON   5451   DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION   5452   DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION   5452   DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION   5450   DIAMETER_ERROR_SUBSESSION   5471   DIAMETER_ERROR_SUBSESSION   5471   DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME   29.215 [22]   Note: The Experimental Result Codes from 5472 to 5489 are reserved for the TS 29.215.   5490   DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET   29.173 [25]   Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173.   5510   DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI   TY   29.336 [28]   DIAMETER_ERROR_UNAUTHORIZED_SERVICE   S531   DIAMETER_ERROR_UNAUTHORIZED_SERVICE   S531   DIAMETER_ERROR_SC_CONGESTION   5532   DIAMETER_ERROR_SC_CONGESTION   5533   DIAMETER_ERROR_SC_CONGESTION   5533   DIAMETER_ERROR_SC_CONGESTION   5534   DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE   5535   DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE   5535   DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE   5535   DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE   5535   DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE   5535   DIAMETER_ERROR_SC_CONGESTION   5532   DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE   5535   DIAMETER_ERROR_SC_CONGESTION   5535   DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE   5536   DIAMETER_ERROR_SC_FAILITY_NOT_SUPPORTED   5535   DIAMETER_ERROR_SC_FAILURE   5536   DIAMETER_ERROR_SC_FILEDAL_USER   5536   DIAMETER_ERROR_SC_FILEDAL_USER   5536   DIAMETER_ERROR_SC_FILEDAL_USER   5536   DIAMETER_ERROR_SC_FILE			5 29.109.
S422   DIAMETER_ERROR_EQUIPMENT_UNKNOWN     5423   DIAMETER_ERROR_UNKNOWN_SERVING_NODE     Note: The Experimental Result Codes from 5424 to 5449 are reserved for the TS 29.272.     5450   DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTION ON     5451   DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION     5452   DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED     Note: The Experimental Result Codes from 5453 to 5469 are reserved for the TS 29.273.     5470   DIAMETER_ERROR_SUBSESSION     5471   DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME NT     Note: The Experimental Result Codes from 5472 to 5489 are reserved for the TS 29.215.     5490   DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK     WORK   WORK     Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173.     5510   DIAMETER_ERROR_UNAUTHORIZED_SERVICE     Note: The Experimental Result Codes from 5512 to 5529 are reserved for the TS 29.336 [28]     S511   DIAMETER_ERROR_INVALID_SME_ADDRESS     5530   DIAMETER_ERROR_INVALID_SME_ADDRESS     5531   DIAMETER_ERROR_SM_PROTOCOL     5533   DIAMETER_ERROR_SM_PROTOCOL     5533   DIAMETER_ERROR_SM_PROTOCOL     5534   DIAMETER_ERROR_SM_PROTOCOL     5535   DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING     Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.337.     5550   DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING     Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.337.     5550   DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING     Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.338 [30]     5554   DIAMETER_ERROR_SM_FACILITY_NOT_SUPPORTED     5555   DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED     5556   DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED     5557   DIAMETER_ERROR_SERVICE_BARRED     5558   DIAMETER_ERROR_SERVICE_BARRED     5559   DIAMETER_ERROR_SERVICE_BARRED     5550   DIAMETER_ERROR_SERVICE_BARRED     5550   DIAMETER_ERROR_SERVICE_BARRED     5550   DIAMETER_ERROR_SERVICE_BARRED     5550   DIAMETER_ERROR_SERVICE_BARRED     5550			00 070 [04]
Note: The Experimental Result Codes from 5424 to 5449 are reserved for the TS 29.273.  5450 DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTION ON 5451 DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED 29.273 [20]  5451 DIAMETER_ERROR_SUBSENSION 29.215 [22]  Note: The Experimental Result Codes from 5453 to 5469 are reserved for the TS 29.273.  5470 DIAMETER_ERROR_SUBSESSION 5471 DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME NT NT 29.215 [22]  Note: The Experimental Result Codes from 5472 to 5489 are reserved for the TS 29.215.  5490 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK 29.173 [25]  Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173 [25]  Note: The Experimental Result Codes from 5512 to 5529 are reserved for the TS 29.336 [28]  5510 DIAMETER_ERROR_UNAUTHORIZED_SERVICE  Note: The Experimental Result Codes from 5512 to 5529 are reserved for the TS 29.336 [28]  5511 DIAMETER_ERROR_INVALID_SME_ADDRESS  5531 DIAMETER_ERROR_SM_PROTOCOL  5533 DIAMETER_ERROR_SM_PROTOCOL  5533 DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE  5535 DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE  5535 DIAMETER_ERROR_TRIGGER_RECALL_FAILURE  5535 DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING  Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.337.  5550 DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING  Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.337.  5550 DIAMETER_ERROR_SC_CONGENTION SUPPORTED  5553 DIAMETER_ERROR_SCALILT_FAILURE  5554 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS  5555 DIAMETER_ERROR_USER_LILEGAL_USER  5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED  5557 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED  5558 DIAMETER_ERROR_SERVICE_BARRED  5559 DIAMETER_ERROR_SERVICE_BARRED  5550 DIAMETER_ERROR_SERVICE_BARRED  5550 DIAMETER_ERROR_SERVICE_BARRED  5550 DIAMETER_ERROR_SERVICE_DOUNTERS 29.238.			29.272 [21]
Note: The Experimental Result Codes from 5424 to 5449 are reserved for the TS 29.272.			
DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTION			
ON 5451 DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION 5452 DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED Note: The Experimental Result Codes from 5453 to 5469 are reserved for the TS 29.273.  5470 DIAMETER_ERROR_SUBSESSION 5471 DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME NT NT Note: The Experimental Result Codes from 5472 to 5489 are reserved for the TS 29.215.  5490 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK NOTE: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173.  5510 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI TY S511 DIAMETER_ERROR_UNAUTHORIZED_SERVICE NOTE: The Experimental Result Codes from 5512 to 5529 are reserved for the TS 29.336.  5530 DIAMETER_ERROR_UNAUTHORIZED_SERVICE NOTE: The Experimental Result Codes from 5512 to 5529 are reserved for the TS 29.336.  5531 DIAMETER_ERROR_INVALID_SME_ADDRESS 5531 DIAMETER_ERROR_SC_CONGESTION 5532 DIAMETER_ERROR_SC_CONGESTION 5533 DIAMETER_ERROR_SM_PROTOCOL 5533 DIAMETER_ERROR_SM_PROTOCOL 5534 DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE 5534 DIAMETER_ERROR_TRIGGER_RECALL_FAILURE 5535 DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.337.  5550 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5551 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5552 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5553 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5554 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SM_DELIVERY_FAILURE 5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED 5557 DIAMETER_ERROR_SERVICE_BARRED 5556 DIAMETER_ERROR_SERVICE_BARRED 5557 DIAMETER_ERROR_SERVICE_BARRED 5557 DIAMETER_ERROR_SERVICE_BARRED 5560 DIAMETER_ERROR_SERVICE_BARRED 5570 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]			S 29.272.
S451   DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION     5452   DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED     Note: The Experimental Result Codes from 5453 to 5469 are reserved for the TS 29.273.     5470   DIAMETER_ERROR_SUBSESSION     5471   DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME     NT	5450		
DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION			29 273 [20]
Note: The Experimental Result Codes from 5453 to 5469 are reserved for the TS 29.273.			20.270 [20]
DIAMETER_ERROR_SUBSESSION   S471   DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME   NT			
Note: The Experimental Result Codes from 5472 to 5489 are reserved for the TS 29.215.  Standard Result Codes from 5472 to 5489 are reserved for the TS 29.215.  Standard Result Codes from 5472 to 5489 are reserved for the TS 29.215.  Standard Result Codes from 5472 to 5489 are reserved for the TS 29.173 [25]  Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173.  Standard Result Codes from 5491 to 5509 are reserved for the TS 29.173.  Standard Result Codes from 5491 to 5509 are reserved for the TS 29.173.  Standard Result Codes from 5512 to 5529 are reserved for the TS 29.336 [28]  Standard Result Codes from 5512 to 5529 are reserved for the TS 29.336.  Standard Result Codes from 5512 to 5529 are reserved for the TS 29.336.  Standard Result Codes from 5512 to 5529 are reserved for the TS 29.337 [29]  Standard Result Codes from 5512 to 5529 are reserved for the TS 29.337 [29]  Standard Result Codes from 5530 DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE  Standard Result Codes from 5536 to 5549 are reserved for the TS 29.337.  Standard Result Codes from 5536 to 5549 are reserved for the TS 29.337.  Standard Result Codes from 5536 to 5549 are reserved for the TS 29.338 [30]  Standard Result Codes from 5536 to 5549 are reserved for the TS 29.338 [30]  Standard Result Codes from 5536 to 5549 are reserved for the TS 29.338 [30]  Standard Result Codes from 5559 to 5569 are reserved for the TS 29.338.  Standard Result Codes from 5559 to 5569 are reserved for the TS 29.338.  Standard Result Codes from 5559 to 5569 are reserved for the TS 29.338.			S 29.273.
NT			
Note: The Experimental Result Codes from 5472 to 5489 are reserved for the TS 29.215.  5490 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK  Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173.  5510 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI TY 29.336 [28]  5511 DIAMETER_ERROR_UNAUTHORIZED_SERVICE  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  5532 DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE  5533 DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE  5534 DIAMETER_ERROR_TRIGGER_RECALL_FAILURE  5535 DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING  Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.337.  5550 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS  5551 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS  5552 DIAMETER_ERROR_ILLEGAL_USER  5553 DIAMETER_ERROR_ILLEGAL_USER  5554 DIAMETER_ERROR_ILLEGAL_EQUIPMENT  5555 DIAMETER_ERROR_SILLEGAL_EQUIPMENT  5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED  5557 DIAMETER_ERROR_SERVICE_BARRED  5558 DIAMETER_ERROR_SERVICE_BARRED  5559 DIAMETER_ERROR_SERVICE_BARRED  5550 DIAMETER_ERROR_SERVICE_BARRED  5551 DIAMETER_ERROR_SERVICE_BARRED  5552 DIAMETER_ERROR_SERVICE_BARRED  5555 DIAMETER_ERROR_SERVICE_BARRED  5556 DIAMETER_ERROR_SERVICE_BARRED  5557 DIAMETER_ERROR_SERVICE_BARRED  5558 DIAMETER_ERROR_SERVICE_BARRED  5559 DIAMETER_ERROR_SERVICE_BARRED  5550 DIAMETER_ERROR_SERVICE_BARRED  5551 DIAMETER_ERROR_SERVICE_BARRED  5552 DIAMETER_ERROR_SERVICE_BARRED  5555 DIAMETER_ERROR_SERVICE_BARRED  5556 DIAMETER_ERROR_SERVICE_BARRED  5557 DIAMETER_ERROR_SERVICE_BARRED  5558 DIAMETER_ERROR_SERVICE_BARRED  5569 DIAMETER_ERROR_SERVICE_BARRED  5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS  29.219 [26]	5471		29.215 [22]
DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK   29.173 [25]     Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173.     5510	Note: The Fun	1	2.00.045
Note: The Experimental Result Codes from 5491 to 5509 are reserved for the TS 29.173.    Solid			5 29.2 15.
5510 DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI TY  29.336 [28]  5511 DIAMETER_ERROR_UNAUTHORIZED_SERVICE  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  5532 DIAMETER_ERROR_SM_PROTOCOL  5533 DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE  5534 DIAMETER_ERROR_TRIGGER_RECALL_FAILURE  5535 DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING  Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.337.  5550 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS  5551 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS  5552 DIAMETER_ERROR_ILLEGAL_USER  5554 DIAMETER_ERROR_ILLEGAL_USER  5555 DIAMETER_ERROR_ILLEGAL_USER  5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE  5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED  5557 DIAMETER_ERROR_SERVICE_BARRED  5558 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  29.336 [28]  29.336 [28]  29.336 [28]  29.336 [28]  29.336 [28]  29.336 [28]  29.336 [28]  29.336 [28]  29.336 [28]  29.337 [29]	5490		29.173 [25]
TY  5511 DIAMETER_ERROR_UNAUTHORIZED_SERVICE  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  5532 DIAMETER_ERROR_SM_PROTOCOL  5533 DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE  5534 DIAMETER_ERROR_TRIGGER_RECALL_FAILURE  5535 DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING  Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.337.  5550 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS  5551 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS  5552 DIAMETER_ERROR_ILLEGAL_USER  5553 DIAMETER_ERROR_ILLEGAL_USER  5554 DIAMETER_ERROR_ILLEGAL_USER  5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE  5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED  5557 DIAMETER_ERROR_SERVICE_BARRED  5558 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  29.336 [28]  29.336 [28]  29.336 [28]  29.336 [28]	Note: The Exp		S 29.173.
S511   DIAMETER_ERROR_UNAUTHORIZED_SERVICE     Note: The Experimental Result Codes from 5512 to 5529 are reserved for the TS 29.336.     S530   DIAMETER_ERROR_INVALID_SME_ADDRESS     S531   DIAMETER_ERROR_SC_CONGESTION     S532   DIAMETER_ERROR_SM_PROTOCOL     S533   DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE     S534   DIAMETER_ERROR_TRIGGER_RECALL_FAILURE     S535   DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING     Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.337.     S550   DIAMETER_ERROR_ABSENT_USER     S551   DIAMETER_ERROR_BSENT_USER     S552   DIAMETER_ERROR_FACILITY_NOT_SUPPORTED     S553   DIAMETER_ERROR_ILLEGAL_USER     S554   DIAMETER_ERROR_ILLEGAL_USER     S555   DIAMETER_ERROR_ILLEGAL_EQUIPMENT     S555   DIAMETER_ERROR_SM_DELIVERY_FAILURE     S556   DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED     S557   DIAMETER_ERROR_SERVICE_BARRED     S558   DIAMETER_ERROR_MWD_LIST_FULL     Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338.     S570   DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS     29.219 [26]	5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI	
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  5532 DIAMETER_ERROR_SM_PROTOCOL  5533 DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE  5534 DIAMETER_ERROR_TRIGGER_RECALL_FAILURE  5535 DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING  Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.337.  5550 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS  5551 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS  5552 DIAMETER_ERROR_ILLEGAL_USER  5553 DIAMETER_ERROR_ILLEGAL_USER  5554 DIAMETER_ERROR_ILLEGAL_EQUIPMENT  5555 DIAMETER_ERROR_SM_DELIVERY_FAILURE  5556 DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED  5557 DIAMETER_ERROR_SERVICE_BARRED  5558 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  29.316  29.336  29.337  29.337  29.337  29.338  29.338  29.338  29.338		TY	29.336 [28]
DIAMETER_ERROR_INVALID_SME_ADDRESS	5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
5531 DIAMETER_ERROR_SC_CONGESTION 5532 DIAMETER_ERROR_SM_PROTOCOL 5533 DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE 5534 DIAMETER_ERROR_TRIGGER_RECALL_FAILURE 5535 DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 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 5555 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 5556 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 29.337 [29]	Note: The Expe	erimental Result Codes from 5512 to 5529 are reserved for the T	S 29.336.
DIAMETER_ERROR_SM_PROTOCOL	5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	
5533 DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE 5534 DIAMETER_ERROR_TRIGGER_RECALL_FAILURE 5535 DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.337.  5550 DIAMETER_ERROR_ABSENT_USER 5551 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5552 DIAMETER_ERROR_ILLEGAL_USER 5553 DIAMETER_ERROR_ILLEGAL_USER 5554 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 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 29.337 [29] 29.337 [29]	5531	DIAMETER_ERROR_SC_CONGESTION	
5534 DIAMETER_ERROR_TRIGGER_RECALL_FAILURE 5535 DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.337.  5550 DIAMETER_ERROR_ABSENT_USER 5551 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5552 DIAMETER_ERROR_ILLEGAL_USER 5553 DIAMETER_ERROR_ILLEGAL_USER 5554 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 5555 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 5556 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]	5532	DIAMETER_ERROR_SM_PROTOCOL	00 007 [00]
S535   DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING     Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 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     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     29.337     29.337     29.338 [30]	5533	DIAMETER ERROR_TRIGGER_REPLACE_FAILURE	29.337 [29]
S535   DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING     Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.337.     5550   DIAMETER_ERROR_ABSENT_USER     5551   DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS     5552   DIAMETER_ERROR_ISER_BUSY_FOR_MT_SMS     5553   DIAMETER_ERROR_ILLEGAL_USER     5554   DIAMETER_ERROR_ILLEGAL_EQUIPMENT     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     29.337     29.337     29.338     30]	5534	DIAMETER ERROR TRIGGER RECALL FAILURE	
Note: The Experimental Result Codes from 5536 to 5549 are reserved for the TS 29.337.	5535	DIAMETER ERROR ORIGINAL MESSAGE NOT PENDING	
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		S 29.337.
5551 DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS 5552 DIAMETER_ERROR_FACILITY_NOT_SUPPORTED 5553 DIAMETER_ERROR_ILLEGAL_USER 5554 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 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]			
5552 DIAMETER_ERROR_FACILITY_NOT_SUPPORTED 5553 DIAMETER_ERROR_ILLEGAL_USER 5554 DIAMETER_ERROR_ILLEGAL_EQUIPMENT 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]			
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]			
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]			
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]			29.338 [30]
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]			[]
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]			
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 Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338.  5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]			
5570 DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS 29.219 [26]			S 29.338.
NOTE: The Experimental Result Codes from 5571 to 5589 are reserved for the TS 29.219.		erimental Result Codes from 5571 to 5589 are reserved for the TS	

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

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

## A.1 Application identifiers

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

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

#### A.2 Command codes

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

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

### A.3 AVP codes

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

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

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

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

### A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

# Annex B (informative): Change history

Data	TCC #	TCO De -	CC	D	Change history	OL:	Name
Date	TSG #	TSG Doc.	CR	Kev	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 CN#25	NP-040401			Correction of Charging application reference	6.0.0	6.1.0
		NP-040401			Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401 NP-040412		4	Removal of User Data Request Type AVP Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-09	CN#25 CN#26	NP-040412 NP-040579		1	Inclusion of missing Cx AVPs	6.0.0	6.1.0
2004-12	CN#26	NP-040579		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	6.1.0	6.2.0
2004 12	011#20	141 040000	010	_	of Ro for Re on the Charging Interfaces	0.1.0	0.2.0
2004-12	CN#26	NP-040579	011		Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579	012		Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047	040	1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039	043		Allocations for Gx interface		
		NP-050039			Allocations for Gmb interface		
		NP-050039	046		Allocations for MMS, MM10 Interface		
2005-06	CT#28	CP-050088	0050		Gx interface allocation correction	6.3.0	6.4.0
		CP-050196	0051	1	Addition of Maximum-Number-Accesses AVP		
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.4.0	6.5.0
		CP-050310			Addition of Pr reference point to TS 29.230	ļ	
		CP-050310			Error code cleanup	ļ	
		CP-050310	0056		Addition of Rx ref. point and renaming of Experimental Result		
0005.00	OT#00	OD 050047	0055		Codes	0.5.0	700
2005-09	CT#29	CP-050317			Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-12	CT#30	CP-050624			Addition of GBA-Type AVP Additional Gmb AVP Allocation	7.0.0	7.1.0
		CP-050612			Reservation of AVP codes for 32.299	ł	
		CP-050612			Management of Sh subscriptions	1	
2006-03	CT#31	CP-050625 CP-060073			Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
2000-03	01#31	CP-060073			User-Data in the response to Sh-Subs-Notif	7.1.0	7.2.0
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure	ł	
2006-06	CT#32	CP-060302		-	S-CSCF reselection removal	7.2.0	7.3.0
2006-00	CT#32	CP-060417		3	New AVP Code	7.3.0	7.4.0
2000-03	01#33	CP-060417		3	Errors to be sent in response to Sh-Notif	7.3.0	7.4.0
		CP-060417			Definition of specific Diameter codes for DSAI	1	
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
2000 12	01//04	CP-060562		<u>'</u>	Addition of Diameter Error Code for Emergency Purposes	7.4.0	7.0.0
	ŀ	CP-060555			Allocation of new AVP codes for Gmb	İ	
	ŀ	CP-060555			AVP code allocations for Rf and Ro interfaces	İ	
		CP-060566			Allocation of Success Result Code Range for Gi Interface	i	
2007-03	CT#35	CP-070020			C3 requested addition of new AVP code values to 3GPP TS 29.230	7.5.0	7.6.0
		CP-070020	0093		Allocation of new AVP code for DSAI-Tag AVP		
		CP-070020	0093		Allocation of Experimental-Result-Code AVP for Gi Interface	Ī	
2007-06	CT#36	CP-070318			Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312	0098		Experimental-Result-Codes for Gmb interface	]	
<u></u>	<u></u>	CP-070312	0100		Correction of Diameter AVP code allocation	L	
2007-09	CT#37	CP-070527			Application ID for Gx protocol	7.7.0	7.8.0
2007-12	CT#38	CP-070743			AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
			0105		Allocation of 3GPP specific AVP codes and Experimental Result		
				L	Codes for Gx protocol		
2007-12	CT#38	CP-070755		4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
0000 00	OT#65	OD 22221=	0103	1	AVP code reservation for 32.299 in Rel-8	0.0.0	0.4.0
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	ł	
		CP-080019 CP-080191		1	Wildcarded Public User Identities  Correction on AVP code allocation reservation for TS 32.299 in	{	
		CP-080191	0112	1	Rel-7		
		CP-080204	0113	1	Correction on AVP code allocation reservation for TS 32.299	1	
2008-06	CT#40	CP-080267		1	A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-09	CT#41	CP-080456			Emergency Public User Identity Removal	8.2.0	8.3.0
2008-09	CT#41	CP-080460		1	Support of "Loose-Route" indication from HSS	1	
						4	1
2008-09	CT#41	CP-080460	0122	1	STaMIP Application Id		

1		1			Assignment)	1	
2008-09	CT#41	CP-080463	0124		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			Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044			Update for ReadyForSM	8.4.0	8.5.0
2009-03	CT#43	CP-090044		1	Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090026			Update for Restoration	8.4.0	8.5.0
2009-03 2009-03	CT#43	CP-090024 CP-090033		2	Applds for Gxx and S9 Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43 CT#43	CP-090033		1	AVP codes for S9 protocol	8.4.0 8.4.0	8.5.0 8.5.0
2009-03	CT#43	CP-090024			Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Location of Permanent Failure result code range for the S9	8.4.0	8.5.0
2000 00	01//40	01 000024	0140	ļ ·	application	0.4.0	0.0.0
2009-03	CT#43	CP-090024	0141		AVPs for TS 29.273	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299	0129	4	Update of the AVP Codes	8.5.0	8.6.0
		CP-090299			AVP code reservation for TS 32.299	]	
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13'	]	
			0146		Removal of Requesting Node Type from AIR	ļ	
		CP-090299			S6b Application ID		
2009-09	CT#45	CP-090530			Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
	1	CP-090530			AVP code allocation for TS 29.212	4	
		CP-090531			Update of the AVP type for the User-Id	┥	
2000 00	OT#45	CP-090531			Trace Depth per session	0.7.0	0.00
2009-09	CT#45 CT#46	CP-090557 CP-090800		4	AVP code range for charging ICS-Flag	8.7.0 9.0.0	9.0.0
2009-12	C1#46	CP-090800 CP-091032	-	1	From GMLC-Address to GMLC-Number	9.0.0	9.1.0
		CF -09 1032	0160		Session-Priority AVP	-	
			0163	2	Introduction of SLh application related AVPs and Experimental		
			0.00	-	Result codes		
			0166		Missing AVP error codes		
		CP-090797	0167	1	Introduction of SLg application related AVPs and Application		
					Identifier		
2010-03	CT#47	CP-100031			Wildcarded Public Identity	9.1.0	9.2.0
		CP-100034	0168	1	Correction on AVP code allocation reservation for TS 32.299 in		
		CD 400046	0400	4	Rel-9	-	
		CP-100046 CP-100036		1	AVP code allocation for 29.172 GPL_U support in TS 29.109	-	
		CP-100036			Error codes in 29.172 for SLg	-	}
		CP-100048		1	AVPs in 29.272 for TADS support		1
		CP-100040			Error codes in 29.272 for Unknown MME		
		CP-100236		4	EPS Subcsriber State and Location Information Request		
		CP-100033			One time notification AVP allocation		
		CP-100046			Addition of the LCS-QoS-Class attribute value		
		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	9.3.0
		OD 400007	0183		EPS state and location retrieval	-	
		CP-100287		4	SGmb Application ID	-	
2010-09	CT#49	CP-100277 CP-100463			New APVs in S6a protocol  Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.0
2010-09	01#49	CF-100403	0191	1	interfaces	9.3.0	9.4.0
		CP-100464	0196		AVP Codes Allocation for PCC	1	
2010-09	CT#49	CP-100465		1	SIPTO Permission Indicator	9.4.0	10.0.0
		CP-100466	0198	2	Location data including only serving node address		
		CP-100466	0199		AVP for Update-Eff feature		
2010-12	CT#50	CP-100699			Enhanced SRVCC Subscriber Data	10.0.0	10.1.0
		CP-100687		1	Allocate codes for AVPs on eMPS		
		CP-100683			Allocate codes for AVPs on LIPA	-	
		CP-100688			Periodic TAU/RAU timer in HSS subscription	4	
2011-03	CT#51	CP-100846 CP-110051		1	S6a Error Diagnostic PDP-Address correction	10.1.0	10.2.0
2011-03	01#01	CP-110051			Essential correction on the value type of the ELP Application AVPs	10.1.0	10.2.0
		CP-110087		2	Minimization of Drive Tests (MDT)	1	
		CP-110088			Relay Node Indicator AVPs	1	
2011-06	CT#52	CP-110349			Handling of RTR for Emergency Registration	10.2.0	10.3.0
		CP-110347	0231		Add AVPs from QSPEC cleanup		
		CP-110359			MIPv4 security parameters on the STa and S6b interfaces	1	
		CP-110380			MDT user consent		
		CP-110370	0223		AVP Code Allocation for Pre-paging	4	
2014 22	OT#50	CP-110375			PUR-Flags AVP	10.00	10.4.0
2011-09	CT#53	CP-110559			AVP code alignment with 29.212	10.3.0	10.4.0
		CP-110555 CP-110554			AVP code alignment with 32.299 AVP code alignment with 29.214		1
		CP-110552		-	Experimental Result Code Alignment with 29.061	1	
		O. 11000Z		i			

	-	CP-110555			Failure code and AVP code alignment with 29.212	-	ļ
2011-09	CT#53	CP-110722 CP-110584			Priviledged sender Add vSRVCC updates to the Diameter AVP code table	10.4.0	11 0
2011-09	C1#33	CP-110564		1	AVP code alignment with 32.299	10.4.0	11.0.
		CP-110575			AVP code reservation for 29.212		
2011-12	CT#54	CP-110812			SWx Restoration AVPs	11.0.0	11.1.
		CP-110812			Sy and Sd Application IDs	-	1
		CP-110775	0262		New AVP codes for MBMS IP unicast encapsulation	1	İ
		CP-110775	0265		New AVP codes for MBMS IP multicast encapsulation		
		CP-110786		1	MME-Realm AVP code allocation		
		CP-110811	0277		Equivalent PLMN CSG Subscription Request		ļ
		CP-110781			Restoration of Wildcarded-IMPU AVP		
2012-03	CT#55	CP-120025		1	Codes Allocation for AVPs on Initial Attach	11.1.0	11.2.
		CP-120038	0288		New AVP codes for Absolute Time of MBMS Data Transfer over		
		OD 400000	0004		SGmb	-	
2012-06	CT#56	CP-120038 CP-120240			Allocating Diameter AVP codes for TS 29.219 and TS 29.212 Codes Allocation for AVPs on NPLI	11.2.0	11 2
2012-00	C1#30	CP-120240			Adding new Diameter AVPs to Diameter table to support Trusted	11.2.0	11.3.
		C1 -120230	0234	'	WLAN Access feature		
		CP-120225	0296	1	Trust Relationship Indication	-	
		CP-120251			Corrections to reference titles	-	
		CP-120251			Diameter Code Allocation for TS 29.219		Ì
		CP-120247			Network Name AVP codes	1	İ
	İ	CP-120219	0304	-	Duplicated AVP names		
2012-09	CT#57	CP-120481	0289	3	PS additional number allocation	11.3.0	11.4.
		CP-120473	0293	4	SMS in MME/SGSN		
		CP-120461	0299	2	AAA Failure Recovery AVP codes		
		CP-120474			Transport Access Type AVP for BBAI		
		CP-120480			Local Time Zone		
		CP-120472	0308	-	Allocating Application Identifier and command code for Tsp		
					interface	_	
		CP-120472	0309	-	Application Identifier, Command Codes and AVP range for S6m		
		CD 120667	0242	4	interface GMLC-Name	-	
		CP-120667	0312		Reference list correction to align with the corrected TS 29.212 title	-	
2012-12	CT#58	CP-120731			T4 device triggering via IMS	11.4.0	11 5
2012-12	C1#30	CP-120731			Codes and Identifier Allocation for T4 Specification	11.4.0	11.5
		CP-120731			AVP Code Allocation for 29.336	+	
		CP-120731			Diameter AVP code value allocation in TS 29.368	-	
		CP-120732			Application Identifier, Command Codes and AVP codes for SGd,		Ì
					S6c		
		CP-120716	0324	1	AVP name modification in TS 32.299		
		CP-120742	0325	-	UE Time Zone AVP		
		CP-120741		1	Use of Flag instead of Enumerated AVPs		
		CP-120741		-	Use of Flag instead of Enumerated AVPs	4	
		CP-120743		-	PSI direct routing with restoration procedures	_	
2010.00	OT#50	CP-120743		-	EPS LocationInformation Support	44.5.0	44.0
2013-03	CT#59	CP-130026			Diameter error code for TS 29.219	11.5.0	11.6
2012 02	CT#FO	CP-130026	0336	-	MDT parameters	11 6 0	12.0
2013-03	CT#59	CP-130156 CP-130030			New AVPs for Lgd interface  Validity Time of Short Message	11.6.0	12.0
2013-06	CT#60	CP-130030			Add new DER-S6b-flag AVP	12.0.0	12 1
2013-00	01#00	CP-130298			Failure Result Codes Allocation for TS 29.219	12.0.0	12.1
		CP-130292			Diameter AVP codes for new TS 32.299 AVPs	-	İ
		CP-130279			Definition of SS Status for Call Barring	-	
		CP-130380			New SGs-MME-Identity AVP		İ
		CP-130291			New AVPs for deferred MT-LR and periodic MO-LR TTTP	1	İ
					procedures over Lgd interface		
		CP-130297	0347	1	Application Port Identifier		
		CP-130374			MTRR on Sh		
		CP-130295			Restoration Priority during SGW and PGW restoration procedures		
		CP-130378			SIPTO permission for Local Network enhancements		
2013-09	CT#61	CP-130454			New MBMS flag for eMBMS restoration	12.1.0	12.2
		CP-130461			AVP code reservation for TS 32.299 Rel-12	1	
2010 5 -	1	CP-130460	0368	-	Allocation of Diameter codes and identifiers for 29.212 and 29.215	10.5.	
2013-09				-	Vendor-specific command code for Trigger-Establishment-	12.2.0	12.2
2040.40	OT#00	OD 40000 :	0000		Request/Answer corrected	40.0.1	40.0
2013-12	CT#62	CP-130624			New AVP for optimized LCS procedure for combined MME/SGSN	12.2.1	12.3
		CP-130631		1	Adding E-SMLC provided Cell info and Cell Portion	4	
	1	CP-130800		-	New AVPs for SMS for IMS UE without MSISDN in TS 29.338	4	
	ŀ		ロコスノド	17	Allocation of Diameter codes for 32.299		
		CP-130600				4	
		CP-130605	0378	-	Allocation of Diameter codes for 29.212		
2014-03	CT#63		0378 0380	-		40.0.0	10.1

ĺ		CP-140023	0383	1	Definition of WLAN-related AVPs	]	
2014-06	CT#64	CP-140211	0385	1	Protocol enhancements to indicate support of device recall and	12.4.0	12.5.0
					replace by SMS-SC		
		CP-140251	0402	1	AVP allocation for Error handling, MTC error diagnostic		
		CP-140257	0391	1	SS-Status AVP Definition	]	
		CP-140252	0392	-	Definition of AVPs for Network Location in TWLAN	]	
		CP-140236	0399	-	TWAN-BSSID AVP re-naming	]	
		CP-140247	0397	-	New AVPs for Trusted WLAN access		
		CP-140231	0390	1	Adding Codes for 29.214		
2014-09	CT#65	CP-140515	0403	1	T-GRUU restoration	12.5.0	12.6.0
		CP-140517	0404	1	MB2-C codes	]	
		CP-140505	0405	1	New AVPs for Trusted WLAN access	]	
		CP-140506	0406	1	P-CSCF Restoration indication	]	
		CP-140516	0407	2	Closing TS 29.234 and reused AVP in TS 29.273	]	
		CP-140513	0408	-	Identification of the HSS	]	
					Editorial: WLAN-offloadability AVP codes added as in CR C4-		
					141648.		

## History

	Document history							
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