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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 11.5.0 Release 11)



# Reference RTS/TSGC-0429230vb50 Keywords GSM,LTE,UMTS

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#### **Foreword**

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#### 1 Scope

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

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

#### 2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- 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*.

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

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

#### 3 Definitions and abbreviations

#### 3.1 Definitions

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

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

#### 3.2 Abbreviations

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

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

### 4 Application identifiers

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

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

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

#### 4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

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

#### 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	20, 220, [4]
308	Subscribe-Notifications-Request/-Answer	SNR/SNA	29.329 [4]
309	Push-Notification-Request/-Answer	PNR/PNA	
310	Boostrapping-Info-Request/Answer	BIR/BIA	29.109 [7]
311	Message-Process-Request/Answer	MPR/MPA	29.140 [16]
312	GBAPush-Info-Request/Answer	GPR/GPI	29.109 [7]

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
8388620	Provide-Location-Request/Answer	PLR/PLA	20 472 [24]
8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]
8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]
8388635	Spending-Limit-Request/Answer	SLR/SLA	
8388636	Spending-Status-Notification- Request/Answer	SNR/SNA	29.219 [26]
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 Request/Answer	OFR/OFA	
8388646	MT-Forward-Short-Message Request/Answer	TFR/TFA	
8388647	Send-Routing-Info-for-SM- Request/Answer	SRR/SRA	29.338 [30]
8388648	Alert-Service-Centre-Request/Answer	ALR/ALA	
8388649	Report-SM-Delivery-Status- Request/Answer	RDR/RDA	

#### 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		Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
	3GPP-WLAN-QoS-Filter-Support	OctetString	1 ''
	The AVP codes from 1 to 255 are reserved for backwards compatibil		endor Specific
	utes (See TS 29.061 [13] and TS 29.234 [6])	,	
	The AVP codes from 256 to 299 are reserved for future use.		
	Authentication-Method	Enumerated	
	Authentication-Information-SIM	OctetString	1
	Authorization -Information-SIM	OctetString	=
	WLAN-User-Data	Grouped	
	Charging-Data	Grouped	
	WLAN-Access	Enumerated	
	WLAN-3GPP-IP-Access		=
	APN-Authorized	Enumerated Grouped	=
	APN-Id	Grouped	=
		Francisco d	=
	APN-Barring-Type	Enumerated	29.234 [6]
	WLAN-Direct-IP-Access	Enumerated	4
	Session-Request-Type	Enumerated	
	Routing-Policy	IPFilterRule	
	Max-Requested-Bandwidth	OctetString	
	Charging-Characteristics	Integer	
	Charging-Nodes	Grouped	
	Primary-OCS-Charging-Function-Name	DiameterIdentity	
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
	3GPP-AAA-Server-Name	DiameterIdentity	
	Maximum-Number-Accesses	Unsigned32	
	The AVP codes from 320 to 399 are reserved for TS 29.234		
400	GBA-UserSecSettings	OctetString	
401	Transaction-Identifier	OctetString	
402	NAF-Hostname	OctetString	4
	GAA-Service-Identifier Key-ExpiryTime	OctetString Time	
	ME-Key-Material	OctetString	+
406	UICC-Key-Material	OctetString	
	GBA_U-Awareness-Indicator	Enumerated	+
408	BootstrapInfoCreationTime	Time	
409	GUSS-Timestamp	Time	7
	GBA-Type	Enumerated	29.109 [7]
	UE-Id	OctetString	
	UE-Id-Type	Enumerated	
	UICC-App-Label	OctetString	4
414	UICC-ME Requested-Key-Lifetime	Enumerated Time	
	Private-Identity-Request	Enumerated	=
	GBA-Push-Info	OctetString	╡
	NAF-SA-Identifier	OctetString	†
	Security-Feature-Request	OctetString	
420	Security-Feature-Response	OctetString	7
Note:	The AVP codes from 421 to 499 are reserved for TS 29.109	· -	
500	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	
	Access-Network-Charging-Identifier	Grouped	7
	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	20.217[10]
	Flow-Description	IPFilterRule	-
			-
208	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  Media-Component-Number	Grouped Unsigned32	
	Media-Sub-Component AVP	Grouped	
	Media-Type	Enumerated	
	RR-Bandwidth	Unsigned32	
	RS-Bandwidth	Unsigned32	
	SIP-Forking-Indication	Enumerated	
	Codec-Data	OctetString	
	Service-URN	OctetString	
	Acceptable-Service-Info	Grouped	
	Service-Info-Status	Enumerated	
	MPS-Identifier	OctetString	
	AF-Signalling-Protocol	Enumerated	
	Sponsored-Connectivity-Data	Grouped	
531	Sponsor-Identity Sponsor-Identity	OctetString	
532	Application-Service-Provider-Identity	OctetString	
	The AVP codes from 533 to 599 are reserved for TS 29.209, TS 29.21		
	Visited-Network-Identifier	OctetString	
	Public-Identity	UTF8String	
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	
	SIP-Authorization	OctetString	
	SIP-Authentication-Context SIP-Auth-Data-Item	OctetString Grouped	
	SIP-Item-Number	Unsigned32	
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
	Reason-Info	UTF8String	
	Charging-Information	Grouped	
	Primary-Event-Charging-Function-Name	DiameterURI	00 000 101
	Secondary-Event-Charging-Function-Name	DiameterURI	29.229 [2]
	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
	User-Authorization-Type	Enumerated	
	User-Data-Already-Available	Enumerated	
	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
	Supported-Applications	Grouped	
	Associated-Identities	Grouped	
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
	UAR-Flags Loose-Route-Indication	Unsigned32 Enumerated	
	SCSCF-Restoration-Info	Grouped	
บงช	00001 *I\&9101411011-IIII0	Grouped	

640 Doth		Octotetring	
640 Path 641 Contact		OctetString OctetString	
642 Subscript	on Info	Grouped	
643 Call-ID-S		OctetString	
644 From-SIP		OctetString	
645 To-SIP-H		OctetString	
646 Record-R		OctetString	
	d-Registered-Identities	Grouped	
	egistration-Indication	Enumerated	
649 Restoration			
		Grouped	
650 Session-F		Enumerated	
	th-Emergency-Registration	Grouped	
	d-Sender-Indication	Enumerated	
653 LIA-Flags	odes from 654 to 699 are reserved for TS 29.229.	Unsigned32	
		Crounad	
700 User-Ider 701 MSISDN	ity	Grouped	
701 WSISDIN 702 User-Data		OctetString	
		OctetString	
703 Data-Refe		Enumerated	
704 Service-Ir		OctetString	
705 Subs-Red		Enumerated	
706 Requeste		Enumerated	
707 Current-L		Enumerated	
708 Identity-S		Enumerated	
709 Expiry-Tir		Time	29.329 [4]
710 Send-Dat	a-Indication	Enumerated	
711 DSAI-Tag	A1 00 0	OctetString	
712 One-Time		Enumerated	
713 Requeste		Unsigned32	
714 Serving-N		Enumerated	
715 Repositor		Grouped	
716 Sequence		Unsigned32	
717 Pre-pagin		Enumerated	
	e-Zone-Indication	Enumerated	
719 UDR-Flag	5	Unsigned32	
	odes from 720 to799 are reserved for TS 29.329.		
	odes from 800 to 822 are reserved for TS 32.299.		
823 Event-Typ		Grouped	
824 SIP-Meth	00	UTF8String	
825 Event		UTF8String	
826 Content-1	/1	UTF8String	
827 Content-L		Unsigned32	
828 Content-D		UTF8String	
829 Role-of-N		Enumerated	
830 User-Ses		UTF8String	
831 Calling-Pa		UTF8String	
832 Called-Pa		UTF8String	
833 Time-Star		Grouped	
834 SIP-Requ		Time	
	onse-Timestamp	Time	
836 Application		UTF8String	32.299 [5]
	n-provided-called-party-address	UTF8String	r-1
838 Inter-Ope	ator-identifier	Grouped	
839 Originatin	101	LITEOO! :	
840 Terminati		UTF8String	
	g-IOI	UTF8String	
	g-IOI ging-Identifier	UTF8String UTF8String	
	g-IOI ging-Identifier ion-Description	UTF8String UTF8String UTF8String	
843 SDP-Med	g-IOI ging-Identifier ion-Description a-Component	UTF8String UTF8String UTF8String Grouped	
843 SDP-Med 844 SDP-Med	g-IOI jing-Identifier ion-Description a-Component a-Name	UTF8String UTF8String UTF8String Grouped UTF8String	
843 SDP-Med 844 SDP-Med 845 SDP-Med	g-IOI  jing-Identifier  ion-Description  a-Component  a-Name  a-Description	UTF8String UTF8String UTF8String Grouped UTF8String UTF8String UTF8String	
843 SDP-Med 844 SDP-Med 845 SDP-Med 846 CG-Addre	g-IOI ging-Identifier ion-Description a-Component a-Name a-Description	UTF8String UTF8String UTF8String Grouped UTF8String UTF8String Address	
843 SDP-Med 844 SDP-Med 845 SDP-Med 846 CG-Addre 847 GGSN-Ad	g-IOI ping-Identifier ion-Description a-Component a-Name a-Description ss dress	UTF8String UTF8String UTF8String Grouped UTF8String UTF8String Address Address	
843 SDP-Med 844 SDP-Med 845 SDP-Med 846 CG-Addre 847 GGSN-Ad 848 Served-P	g-IOI ping-Identifier ion-Description a-Component a-Name a-Description ss dress urty-IP-Address	UTF8String UTF8String UTF8String Grouped UTF8String UTF8String UTF8String Address Address Address	
843 SDP-Med 844 SDP-Med 845 SDP-Med 846 CG-Addre 847 GGSN-Ad 848 Served-P 849 Authorize	g-IOI ping-Identifier ion-Description a-Component a-Name a-Description ss dress urty-IP-Address	UTF8String UTF8String UTF8String Grouped UTF8String UTF8String Address Address	

	Trunk-Group-Id	Grouped	
	Incoming-Trunk-Group-Id	UTF8String	
	Outgoing-Trunk-Group-Id	UTF8String	
	Bearer-Service	OctetString	
	Service-Id	UTF8String	
856	Associated-URI	UTF8String	
857	Charged-Party	UTF8String	
858	PoC-Controlling-Address	UTF8String	
	PoC-Group-Name	UTF8String	
860	Cause	Grouped	
861	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		
	IMS-Information	Grouped Grouped	
	MMS-Information	Grouped	
	LCS-Information	Grouped	
	PoC-Information	Grouped	
	MBMS-Information	Grouped	
	Quota-Consumption-Time	Unsigned32	
	Media-Initiator-Flag	Enumerated	
	PoC-Server-Role	Enumerated	
	PoC-Session-Type	Enumerated	
	Number-Of-Participants	Unsigned32	
	Originator-Address	Grouped	
	Participants-Involved	UTF8String	
	Expires	Unsigned32	
889	Message-Body	Grouped	
890	WAG-Address	Address	
891	WAG-PLMN-Id	OctetString	
892	WLAN-Radio-Container	Grouped	
	WLAN-Technology	Unsigned32	
	WLAN-UE-Local-IPAddress	Address	
	PDG-Address	Address	
	PDG-Charging-Id	Unsigned32	
	Address-Data	UTF8String	
	Address-Domain	Grouped	
	Address-Type	Enumerated	
- 555			
900	TMGI	OctectString	
	Required-MBMS-Bearer-Capabilities	UTF8String	
	MBMS-StartStop-Indication	Enumerated	
	MBMS-Service-Area	OctectString	
	MBMS-Session-Duration	Unsigned32	
	Alternative-APN	UTF8String	
	MBMS-Service-Type	Enumerated	20 064 [40]
	MBMS-2G-3G-Indicator	Enumerated	29.061 [13]
	MBMS-Session-Identity	OctetString	
909		UTF8String	
	Additional-MBMS-Trace-Info	OctetString	
	MBMS-Time-To-Data-Transfer	Unsigned32	
	MBMS-Session-Identity-Repetition-Number	Unsigned32	
	MBMS-Required-QoS	UTF8String	
914	MBMS-Counting-Information	Enumerated	

,	,	
915 MBMS-User-Data-Mode-Indication	Enumerated	
916 MBMS-GGSN-Address	UTF8String	
917 MBMS-GGSN-IPv6-Address	UTF8String	
918 MBMS-BMSC-SSM-IP-Address	UTF8String	
919 MBMS-BMSC-SSM-IPv6-Address	UTF8String	
920 MBMS-Flow-Identifier	OctetString	
921 CN-IP-Multicast-Distribution	Enumerated	
922 MBMS-HC-Indicator	Enumerated	
923 MBMS-Access-Indicator	Enumerated	
924 MBMS-GW-SSM-IP-Address	OctetString	
925 MBMS-GW-SSM-IPv6-Address	OctetString	
926 MBMS-BMSC-SSM-UDP-Port	OctetString	
927 MBMS-GW-UDP-Port	OctetString	
928 MBMS-GW-UDP-Port-Indicator	Enumerated	
929 MBMS-Data-Transfer-Start 930 MBMS-Data-Transfer-Stop	Unsigned64	
Note: The AVP codes from 929 to 999 are reserved for TS 29.061	Unsigned64	
1000 Bearer-Usage	Enumerated	
1000 Bearer-Osage 1001 Charging-Rule-Install	Grouped	
1001 Charging-Rule-Install 1002 Charging-Rule-Remove	Grouped	
1002 Charging-Rule-Remove  1003 Charging-Rule-Definition	Grouped	
1004 Charging-Rule-Base-Name	UTF8String	
1005 Charging-Rule-Name	OctetString	
1006 Event-Trigger	Enumerated	
1007 Metering-Method	Enumerated	
1008 Offline	Enumerated	
1009 Online	Enumerated	
1010 Precedence	Unsigned32	
1011 Reporting-Level	Enumerated	
1012 TFT-Filter	IPFilterRule	
1013 TFT-Packet-Filter-Information	Grouped	
1014 ToS-Traffic-Class	OctetString	
1016 QoS-Information	Grouped	
1018 Charging-Rule-Report	Grouped	
1019 PCC-Rule-Status	Enumerated	
1020 Bearer-Identifier	OctetString	
1021 Bearer-Operation	Enumerated	
1022 Access-Network-Charging-Identifier-Gx	Grouped	
1023 Bearer-Control-Mode	Enumerated	
1024 Network-Request-Support	Enumerated	
1025 Guaranteed-Bitrate-DL	Unsigned32	29.212 [19]
1026 Guaranteed-Bitrate-UL	Unsigned32	
1027 IP-CAN-Type	Enumerated	
1028 QoS-Class-Identifier	Enumerated	
1029 QoS-Negotiation	Enumerated	
1030 QoS-Upgrade 1031 Rule-Failure-Code	Enumerated	
1031 Ruie-Failure-Code 1032 RAT-Type	Enumerated	
1032 RAT-Type 1033 Event-Report-Indication	Enumerated Grouped	
1033 Event-Report-Indication  1034 Allocation-Retention-Priority	Grouped	
1034 Allocation-Retention-Frionty 1035 CoA-IP-Address	Address	
1036 Tunnel-Header-Filter	IPFilterRule	
1037 Tunnel-Header-Length	Unsigned32	
1038 Tunnel-Information	Grouped	
1039 CoA-Information	Grouped	
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32	
1041 APN-Aggregate-Max-Bitrate-UL	Unsigned32	
1042 Revalidation-Time	Time	
1043 Rule-Activation-Time	Time	
1044 Rule-DeActivation-Time	Time	
1045 Session-Release-Cause	Enumerated	
1046 Priority-Level	Unsigned32	
1047 Pre-emption-Capability	Enumerated	
1048 Pre-emption-Vulnerability	Enumerated	
1049 Default-EPS-Bearer-QoS	Grouped	

1050 AN-GW-Address	Address	
1051 QoS-Rule-Install	Grouped	
1052 QoS-Rule-Remove	Grouped	
1053 QoS-Rule-Definition	Grouped	
1054 QoS-Rule-Name	OctetString	
1055 QoS-Rule-Report	Grouped	
1056 Security-Parameter-Index	OctetString	
1057 Flow-Label	OctetString	
1058 Flow-Information	Grouped	
1059 Packet-Filter-Content	IPFilterRule	
1060 Packet-Filter-Identifier	OctetString	
1061 Packet-Filter-Information	Grouped	
1062 Packet-Filter-Operation	Enumerated	
1063 Resource-Allocation-Notification	Enumerated	
1064 Session-Linking-Indicator	Enumerated	
1065 PDN-Connection-ID	OctetString	
1066 Monitoring-Key	OctetString	
1067 Usage-Monitoring-Information	Grouped	
1068 Usage-Monitoring-Level	Enumerated	
1069 Usage-Monitoring-Report	Enumerated	
1070 Usage-Monitoring-Support	Enumerated	
1071 CSG-Information-Reporting	Enumerated	
1072 Packet-Filter-Usage	Enumerated	
1073 Charging-Correlation-Indicator	Enumerated	
1074 QoS-Rule-Base-Name	UTF8String	
1075 Routing-Rule-Remove	Grouped	
1076 Routing-Rule-Definition	Grouped	
1077 Routing-Rule-Identifier	OctetString	
1078 Routing-Filter	Grouped	
1079 Routing-IP-Address	Address	
1080 Flow-Direction	Enumerated	
1081 Routing-Rule-Install	Grouped	
1085 Redirect-Information	Grouped	
1086 Redirect-Support	Enumerated	
1087 TDF-Information	Grouped	
1088 TDF-Application-Identifier	OctetString	
1089 TDF-Destination-Host	DiameterIdentity	
1090 TDF-Destination-Realm	DiameterIdentity	
1091 TDF-IP-address	Address	
1092 ADC-Rule-Install	Grouped	
1093 ADC-Rule-Remove	Grouped	
1094 ADC-Rule-Definition	Grouped	
1095 ADC-Rule-Base-Name	UTF8String	
1096 ADC-Rule-Name	OctetString	
1090 ADC-Rule-Name	Grouped	
1097 ADC-Rule-Report 1098 Application-Detection-Information	Grouped	
1099 PS-to-CS-Session-Continuity	Enumerated	
Note: The AVP codes from 1082 to 1084 are reserved for TS 29.212	Lituilletateu	
1100 Served-User-Identity	Groupo	
1100 Served-Oser-Identity	Groupe UTF8Str	
1101 VASP-ID 1102 VAS-ID		
	UTF8String	
1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address	Grouped	
1106 Result-Recipient-Address	Grouped	
1107 Sequence-Number	Unsigned32	00.440.5401
1108 Recipient-Address	UTF8String	29.140 [16]
1109 Routeing-Address	UTF8String	
1110 Originating-Interface	Enumerated	
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key	UTF8String	
1115 Billing-Information 1116 Status	UTF8String	
	Grouped	

1117 Status-Code	LITEOCtring	
1118 Status-Code	UTF8String UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	OTFOSTING	
1200 Domain-Name	UTF8String	
1201 Recipient-Address	Grouped	
1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size	Unsigned32	
1207 Additional-Content-Information	Grouped	
1208 Addressee-Type	Enumerated	
1209 Priority	Enumerated	
1210 Message-ID	UTF8String	
1211 Message-Type	Enumerated	
1211 Message-Type 1212 Message-Size	Unsigned32	
	Grouped	
1213 Message-Class 1214 Class-Identifier		
	Enumerated	
1215 Token-Text	UTF8String	
1216 Delivery-Report-Requested	Enumerated	
1217 Adaptations	Enumerated	
1218 Applic-ID	UTF8String	
1219 Aux-Applic-Info 1220 Content-Class	UTF8String	
	Enumerated	
1221 DRM-Content	Enumerated	
1222 Read-Reply-Report-Requested	Enumerated	
1223 Reply-Applic-ID	UTF8String	
1224 File-Repair-Supported	Enumerated	
1225 MBMS-User-Service-Type	Enumerated	
1226 Unit-Quota-Threshold	Unsigned32	
1227 PDP-Address	Address	
1228 SGSN-Address	Address	
1229 PoC-Session-Id	UTF8String	
1230 Deferred-Location-Even-Type	UTF8String	32.299 [5]
1231 LCS-APN	UTF8String	
1232 LCS-Client-Id	Grouped	
1233 LCS-Client-Dialed-By-MS	UTF8String	
1234 LCS-Client-External-ID	UTF8String	
1235 LCS-Client-Name	Grouped	
1236 LCS-Data-Coding-Scheme	UTF8String	
1237 LCS-Format-Indicator	Enumerated	
1238 LCS-Name-String	UTF8String	
1239 LCS-Requestor-Id	Grouped	
1240 LCS-Requestor-Id-String	UTF8String	
1241 LCS-Client-Type	Enumerated	
1242 Location-Estimate	OctetString	
1243 Location-Estimate-Type	Enumerated	
1244 Location-Type	Grouped	
1245 Positioning-Data	UTF8String	
1246 WLAN-Session-Id	UTF8String	
1247 PDP-Context-Type	Enumerated	
1248 MMBox-Storage-Requested	Enumerated	
1249 Service-Specific-Info	Grouped	
1250 Called-Asserted-Identity	UTF8String	
1251 Requested-Party-Address	UTF8String	
1252 PoC-User-Role	Grouped	
1253 PoC-User-Role-IDs	UTF8String	
1254 PoC-User-Role-info-Units	Enumerated	
1255 Talk-Burst-Exchange	Grouped	
1256 Service-Generic-Information	Grouped	
1257 Service-Specific-Type	Unsigned32	
1258 Event-Charging-TimeStamp	Time	
1259 Participant-Access-Priority	Enumerated	
1260 Participant-Group	Grouped	
1261 PoC-Change-Conditions	Enumerated	

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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		
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	
	Ŭ	
1411 Re-Synchronization-Info	OctetString	
1412 Immediate-Response-Preferred	Unsigned32	
1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	
1417 Network-Access-Mode	Enumerated	
1418 HPLMN-ODB	Enumerated	29.272 [21]
1419 Item-Number	Enumerated	ZU.ZIZ IZ II
I = 10   ItOH TNUHDEL		20.272 [21]
	Unsigned32	20.272 [21]
1420 Cancellation-Type	Unsigned32 Enumerated	25.272 [21]
1420 Cancellation-Type 1421 DSR-Flags	Unsigned32 Enumerated Unsigned32	20.272 [21]
1420 Cancellation-Type 1421 DSR-Flags	Unsigned32 Enumerated	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags	Unsigned32 Enumerated Unsigned32 Unsigned32	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32	23.212 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 UTF8String	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 UTF8String UTF8String	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 UTF8String UTF8String Enumerated	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator 1429 APN-Configuration-Profile	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 UTF8String UTF8String Enumerated Grouped	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator 1429 APN-Configuration-Profile 1430 APN-Configuration	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 UTF8String UTF8String Enumerated	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator 1429 APN-Configuration-Profile 1430 APN-Configuration	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Unsigned32 UTF8String UTF8String Enumerated Grouped Grouped	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator 1429 APN-Configuration-Profile 1430 APN-Configuration 1431 EPS-Subscribed-QoS-Profile	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 UTF8String UTF8String Enumerated Grouped Grouped Grouped	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator 1429 APN-Configuration-Profile 1430 APN-Configuration 1431 EPS-Subscribed-QoS-Profile 1432 VPLMN-Dynamic-Address-Allowed	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 UTF8String UTF8String Enumerated Grouped Grouped Grouped Enumerated	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator 1429 APN-Configuration-Profile 1430 APN-Configuration 1431 EPS-Subscribed-QoS-Profile 1432 VPLMN-Dynamic-Address-Allowed 1433 STN-SR	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 UTF8String UTF8String Enumerated Grouped Grouped Grouped Enumerated OctetString	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator 1429 APN-Configuration-Profile 1430 APN-Configuration 1431 EPS-Subscribed-QoS-Profile 1432 VPLMN-Dynamic-Address-Allowed	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 UTF8String UTF8String Enumerated Grouped Grouped Grouped Enumerated	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator 1429 APN-Configuration-Profile 1430 APN-Configuration 1431 EPS-Subscribed-QoS-Profile 1432 VPLMN-Dynamic-Address-Allowed 1433 STN-SR 1434 Alert-Reason	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 UTF8String UTF8String Enumerated Grouped Grouped Grouped Enumerated OctetString Enumerated	23.272 [21]
1420 Cancellation-Type 1421 DSR-Flags 1422 DSA-Flags 1423 Context-Identifier 1424 Subscriber-Status 1425 Operator-Determined-Barring 1426 Access-Restriction-Data 1427 APN-OI-Replacement 1428 All-APN-Configurations-Included-Indicator 1429 APN-Configuration-Profile 1430 APN-Configuration 1431 EPS-Subscribed-QoS-Profile 1432 VPLMN-Dynamic-Address-Allowed 1433 STN-SR	Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 UTF8String UTF8String Enumerated Grouped Grouped Grouped Enumerated OctetString	23.212 [21]

55	1000	Enamoratos	
	User-State	Enumerated	
	SGSN-User-State	Grouped	
	MME-User-State	Grouped	
	EPS-Location-Information	Grouped	
	EPS-User-State	Grouped	
	Last-UE-Activity-Time	Time	
	Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated Enumerated	
	ICS-Indicator IMS-Voice-Over-PS-Sessions-Supported	Enumerated	
	IDR-Flags	Unsigned32	
	SGSN-Number	OctetString	
	Call-Barring-Infor-List	Grouped	
	TS-Code	Enumerated	
	Teleservice-List	Grouped	
	MO-LR	Grouped	
	ServiceTypeIdentity	Unsigned32	
	Service-Type	Grouped	
	PLMN-Client	Enumerated	
	GMLC-Restriction	Enumerated	
	Client-Identity	OctetString	
1479	External-Client	Grouped	
	Notification-To-UE-User	Enumerated	
	SS-Status SS-Status	Grouped	
	SS-Code	OctetString	
	LCS-PrivacyException	Grouped	
	GMLC-Number	OctetString	
	LCS-Info	Grouped	
	Specific-APN-Info	Grouped	
	3GPP2-MEID	OctetString	
	PDP-Type	OctetString	
	PDP-Context	Grouped	
	Complete-Data-List-Included-Indicator	Enumerated	
	GPRS-Subscription-Data	Grouped	
	OMC-Id	OctetString	
	Trace-Event-List	OctetString	
	Trace-Interface-List	OctetString	
	Trace-NE-Type-List	OctetString	
	Trace-Depth	Enumerated	
	Reserved		
	Reserved	-	
	Trace-Reference	OctetString	
	Trace-Data	Grouped	
	Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated	
	PDN-Type	Enumerated	
	Reserved	-	
	SRES	OctetString	
1452 1453	, ,	OctetString	
	Trace-Collection-Entity	Address	
	Reserved	Octetoring	
	KASME	OctetString	
	AUTN	OctetString OctetString	
	XRES	OctetString OctotString	
	Regional-Subscription-Zone-Code RAND	OctetString	
	Equipment-Status	Enumerated	
	User-Id	UTF8String	
	NOR-Flags	Unsigned32	
	PUA-Flags	Unsigned32	
	IDA-Flags	Unsigned32	
	RAT-Frequency-Selection-Priority-ID	Unsigned32	
	Expiration-Date	Time	
1438	PDN-GW-Allocation-Type	Enumerated	
	DDM OM ALL C. T	F	

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	
	Unsigned32	
1512 TWAN-Default-APN-Context-Id	Unsigned32	
1513 Reserved	-	
1514 Reserved	-	
1515 Reserved		
1516 Full-Network-Name	OctetString	
1517 Short-Network-Name	OctetString	
1518 AAA-Failure-Indication	Unsigned32	
1519 Transport-Access-Type	Enumerated	
1520 DER-Flags	Unsigned32	
1521 DEA-Flags	Unsigned32	
1522 RAR-Flags	Unsigned32	
Note: The AVP codes from 1523 to 1599 are reserved for TS 29.273	<u>g</u> - 24-	
1600 MME-Location-Information	Grouped	
1601 SGSN-Location-Information	Grouped	
1602 E-UTRAN-Cell-Global-Identity	OctetString	
1603 Tracking-Area-Identity	OctetString	
1604 Cell-Global-Identity	OctetString	
1605 Routing-Area-Identity	OctetString	
1606 Location-Area-Identity	OctetString	
1607 Service-Area-Identity	OctetString	
1608 Geographical-Information	OctetString	
1609 Geodetic-Information	OctetString	
1610 Current-Location-Retrieved	Enumerated	
1611 Age-Of-Location-Information	Unsigned32	
1612 Active-APN	Grouped	
1613 SIPTO-Permission	Enumerated	
1614 Error-Diagnostic	Enumerated	
1615 UE-SRVCC-Capability	Enumerated	
1616 MPS-Priority	Unsigned32	
1617 VPLMN-LIPA-Allowed	Enumerated	
1618 LIPA-Permission	Enumerated	
1619 Subscribed-Periodic-RAU-TAU-Timer	Unsigned32	
1620 Ext-PDP-Type	OctetString	
1621 Ext-PDP-Address	Address	29.272 [21]
1622 MDT-Configuration	Grouped	
1623 Job-Type	Enumerated	
1624 Area-Scope	Grouped	
1625 List-Of-Measurements	Unsigned32	
1626 Reporting-Trigger	Unsigned32	
1627 Report-Interval	Enumerated	
1628 Report-Amount	Enumerated	
1629 Event-ThresholdRSRP	Unsigned32	
1630 Event-ThresholdRSRQ	Unsigned32	
1631 Logging-Interval	Enumerated	
1632 Logging-Duration	Enumerated	
1633 Relay-Node-Indicator	Enumerated	
1634 MDT-User-Consent	Enumerated	
1635 PUR-Flags	Unsigned32	
1636 Subscribed-VSRVCC	Enumerated	
1637 Equivalent-PLMN-List	Grouped	
1638 CLR-Flags	Unsigned32	
1639 UVR-Flags	Unsigned32	
1640 UVA-Flags	Unsigned32	
1641 VPLMN-CSG-Subscription-Data	Grouped	
TIOTITY LIVINGOUGHOUS CHURUH FDALA	Jioupeu	

1642 Time-Zone	UTF8String	
1643 A-MSISDN	OctetString	
1644 Reserved	-	
1645 MME-Number-for-MT-SMS	OctetString	
1646 Reserved	=	
1647 Reserved	-	
1648 SMS-Register-Request	Enumerated	
1649 Local-Time-Zone	Grouped	
1650 Daylight-Saving-Time 1651 GMLC-Info	Enumerated Grouped	
1651 GMLC-IIII0	DiameterIdentity	
1653 GMLC-Name	DiameterIdentity	
1654 Subscription-Data-Flags	Unsigned32	
Note: The AVP codes from 1655 to 1699 are reserved for TS 29.272.	Offsigned32	
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	
2006 Interface-Type	Enumerated	
2007 SM-Message-Type	Enumerated	
2008 Originating-SCCP-Address	Address	
2009 Originator-Interface	Grouped	
2010 Recipient-SCCP-Address	Address	
2011 Reply-Path-Requested	Enumerated	
2012 SM-Discharge-Time	Time	
2013 SM-Protocol-ID	OctetString	
2014 SM-Status	OctetString	
2015 SM-User-Data-Header	OctetString	
2016 SMS-Node	Enumerated	
2017 SMSC-Address	Address	
2018 Client-Address	Address	
2019 Number-of-Messages-Sent	Unsigned32	
2020 Low-Balance-Indication	Enumerated	
2021 Remaining-Balance	Grouped	
2022 Refund-Information	OctetString	
2023 Carrier-Select-Routing-Information	UTF8String	
2024 Number-Portability-Routing-Information	UTF8String	22 200 [5]
2025 PoC-Event-Type 2026 Recipient-Info	Enumerated Grouped	32.299 [5]
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	

2054 Dunamia Address Flag	Course a vete d	
2051 Dynamic-Address-Flag 2052 Accumulated-Cost	Enumerated	
2052 Accumulated-Cost 2053 AoC-Cost-Information	Grouped Grouped	
2054 AoC-Information	Grouped	
2055 AoC-Request-Type	Enumerated	
2056 Current-Tariff	Grouped	
2057 Next-Tariff		
2057 Next-1amil	Grouped	
	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	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299		
2100 reserved	-	
2101 Application-Server-ID	UTF8String	
2102 Application-Service-Type	Enumerated	
2103 Application-Session-ID	Unsigned32	
2104 Delivery-Status	UTF8String	
2105 reserved	-	
2106 reserved	-	
2107 reserved	-	
2108 reserved	-	
2109 reserved	-	32.299 [5]
2110 IM-Information	Grouped	
2111 Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112 Number-Of-Messages-Successfully-Sent	Unsigned32	
2113 Total-Number-Of-Messages-Exploded	Unsigned32	
2114 Total-Number-Of-Messages-Sent	Unsigned32	
2115 DCD-Information	Grouped	
2116 Content-ID	UTF8String	
2117 Content-provider-ID	UTF8String	
2118 Charge-Reason-Code	Enumerated	
Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299		
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
2202 Subsession-Id	Unsigned32	29.215 [22]
2203 Subsession-Operation	Enumerated	
2204 Multiple-BBERF-Action	Enumerated	
Note: The AVP codes from 2205 to 2299 are reserved for TS 29.215		
2300 reserved	-	
2301 SIP-Request-Timestamp-Fraction	Unsigned32	
2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2303 Online-Charging-Flag	Enumerated	
2304 CUG-Information	OctetString	
2305 Real-Time-Tariff-Information	Grouped	
2306 Tariff-XML	UTF8String	
2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
2309 Account-Expiration	Time	
2310 AoC-Format	Enumerated	32.299 [5]
2311 AoC-Service	Enumerated	
2312 AoC-Service-Obligatory-Type	Grouped	
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	-	
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	
[133		

2321 Initial-IMS-Charging-Identifier	UTF8String	
Note: The AVP codes from 2322 to 2399 are reserved for TS 32.299	T OTI SSIIIIG	
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2401 Getving-rydde	DiameterIdentity	
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets	Unsigned32	29.173 [25]
2405 GMLC-Address	Address	
2406 Additional-Serving-Node	Grouped	
2407 PPR-Address	Address	
2408   MME-Realm     Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173	DiameterIdentity	
	Frumorotod	
2500 Location-Type	Enumerated	
2501 LCS-EPS-Client-Name	Grouped	
2502 LCS-Requestor-Name	Grouped	
2503 LCS-Priority	Unsigned32	
2504 LCS-QoS	Grouped	
2505 Horizontal-Accuracy	Unsigned32	
2506 Vertical-Accuracy	Unsigned32	
2507 Vertical-Requested	Enumerated	
2508 Velocity-Requested	Enumerated	
2509 Response-Time	Enumerated	
2510 Supported-GAD-Shapes	Unsigned32	
2511 LCS-Codeword	UTF8String	29.172 [24]
2512 LCS-Privacy-Check	Enumerated	20.172 [27]
2513 Accuracy-Fulfilment-Indicator	Enumerated	
2514 Age-Of-Location-Estimate	Unsigned32	
2515 Velocity-Estimate	OctetString	
2516 EUTRAN-Positioning-Data	OctetString	
2517 ECGI	OctetString	
2518 Location-Event	Enumerated	
2519 Pseudonym-Indicator	Enumerated	
2520 LCS-Service-Type-ID	Unsigned32	
2521 LCS-Privacy-Check-Non-Session	Grouped	
2522 LCS-Privacy-Check-Session	Grouped	
2523 LCS-QoS-Class	Enumerated	
Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172		
2600 reserved	-	
2601 IMS-Application-Reference-Identifier	UTF8String	
2602 Low-Priority-Indicator	Enumerated	
2603 IP-Realm-Default-Indicator	Enumerated	32.299 [5]
2604 Local-GW-Inserted-Indicator	Enumerated	
2605 Transcoder-Inserted-Indicator	Enumerated	
Note: The AVP codes from 2606 to 2699 are reserved for TS 32.299	Litamoratea	<u>I</u>
2700 reserved	-	32.299 [5]
Note: The AVP codes from 2701 to 2799 are reserved for TS 32.299		UZ.ZUU [U]
2800 reserved	_	
2801 ADC-Revalidation-Time	Time	29.212 [19]
2802 TDF-Application-Instance-Identifier	OctetString	Z3.Z1Z[13]
Note: The AVP codes from 2803 to 2899 are reserved for TS 29.212	Octerating	
2900 reserved	- C	
2901 Policy-Counter-Identifier	Grouped	00 040 [00]
2902 Policy-Counter-Status	UTF8String	29.219 [26]
2903 Policy-Counter-Status-Report	Grouped	
2904   SL-Request-Type	Enumerated	
Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219		
3000 reserved	-	
3001 Device-Action	Grouped	
3002 Device-Notification	Grouped	
3003 Trigger-Data	Grouped	
3004 Payload	OctetString	29.368 [27]
3005 Action-Type	Enumerated	
3006 Priority-Indication	Enumerated	
3007 Reference-Number	Unsigned32	
3008 Request-Status	Enumerated	
13006 IKequesi-Status		

3009	Delivery-Outcome	Enumerated		
Note:	The AVP codes from 3010 to 3099 are reserved for TS 29.368			
	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	00 000 1001	
3106	T4-Parameters	Grouped	29.336 [28]	
3107	Service-Data	Grouped		
3108	T4-Data	Grouped		
3109	HSS-Cause	Unsigned32		
3110	SIR-Flags	Unsigned32		
3111	External-Identifier	UTF8String		
Note:	The AVP codes from 3112 to 3199 are reserved for TS 29.336			
3200	SM-Delivery-Outcome-T4	Enumerated	20 227 [20]	
	Absent-Subscriber-Diagnostic-T4	Enumerated	29.337 [29]	
Note:	The AVP codes from 3202 to 3299 are reserved for TS 29.337	•		
3300	SC-Address	OctetString		
3301	SM-RP-UI	OctetString		
3302	TFR-Flags	Unsigned32		
3303	SM-Delivery- Failure-Cause	Grouped		
3304	SM-Enumerated-Delivery-Failure-Cause	Enumerated		
	SM-Diagnostic-Info	OctetString		
3306	SM-Delivery-Timer	Unsigned32		
	SM-Delivery-Start-Time	Time		
	SM-RP-MTI	Enumerated		
	SM-RP-SMEA	OctetString		
3310	SRR-Flags	Unsigned32		
	SM-Delivery-Not-Intended	Enumerated	29.338 [30]	
	MWD-Status	Unsigned32		
	MME-Absent-User-Subscriber-Diagnostic-SM	Enumerated		
3314	MSC-Absent-User-Subscriber-Diagnostic-SM	Enumerated		
3315	SGSN-Absent-User-Subscriber-Diagnostic SM	Enumerated		
	SM-Delivery-Outcome	Grouped		
	MME-SM-Delivery-Outcome	Grouped		
3318	MSC-SM-Delivery-Outcome	Grouped		
	SGSN-SM-Delivery-Outcome	Grouped		
	IP-SM-GW-SM-Delivery-Outcome	Grouped		
3321	SM-Delivery-Cause	Enumerated		
	Absent-User-Subscriber-Diagnostic-SM	OctetString		
Note:	The AVP codes from 3323 to 3399 are reserved for TS 29.338			

### 8 Experimental result codes

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

#### 8.1 3GPP specific result codes

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

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

- 5xxx (Permanent Failures)

#### 8.1.1 Informational

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

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

#### 8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

Experimental	Result text	Specified in the TS
Result Code		
2001	DIAMETER_FIRST_REGISTRATION	
2002	DIAMETER_SUBSEQUENT_REGISTRATION	
2003	DIAMETER_UNREGISTERED_SERVICE	29.229 [2]
2004	DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED	
2005	Deprecated value	
Note: The 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.	
4121	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]
Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061.	
4141	DIAMETER_PCC_BEARER_EVENT	20 242 [40]
4142	DIAMETER_BEARER_EVENT	29.212 [19]
Note: The Experime	ntal Result Codes from 4142 to 4160 are reserved for the TS 29.212	
		32.299 [5]
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.	
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	29.272 [21]
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.	
4201	DIAMETER_ERROR_ABSENT_USER	29.173 [25]
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.	
4221	DIAMETER_ERROR_UNREACHABLE_USER	
4222	DIAMETER_ERROR_SUSPENDED_USER	
4223	DIAMETER_ERROR_DETACHED_USER	20 172 [24]
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]
4225	DIAMETER_ERROR_POSITIONING_FAILED	
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT	
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.	

#### 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	
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED	
Note: The Expe	erimental Result Codes from 5012 to 5020 are reserved for the TS	S 29.229.
		32.299 [5]
Note: The Expe	erimental Result Codes from 5021 to 5040 are reserved for the TS	S 32.299.
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC RIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER ERROR UNSUITABLE NETWORK	
	erimental Result Codes from 5046 to 5060 are reserved for the TS	S 29.234.
5061	INVALID SERVICE INFORMATION	29.209 [8],
5062	FILTER_RESTRICTIONS	29.211 [17]
	erimental Result Codes from 5063 to 5080 are reserved for TS 29	0.209 and TS
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 OUT_OF_SYNC	29.329 [4]
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5107	DIAMETER ERROR DSAL NOT AVAILABLE	
	erimental Result Codes from 5109 to 5119 are reserved for the TS	3 20 320
5120	DIAMETER ERROR START INDICATION	3 23.323.
5121	DIAMETER_ERROR_START_INDICATION  DIAMETER ERROR_STOP_INDICATION	
5121	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]
E400	E DIAMETER ERROR SERVICE AREA	
5123	DIAMETER_ERROR_SERVICE_AREA	2 20 064
	erimental Result Codes from 5124 to 5139 are reserved for the TS	o ∠9.001.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	
5143 5144	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	29.212 [19]
	D	
5145	DIAMETER_QOS_RULE_EVENT	
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
•	erimental Result Codes from 5144 to 5159 are reserved for the TS	5 29.212.
5401	DIAMETER_ERROR_IMPI_UNKNOWN	
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	
	rimental Result Codes from 5404 to 5419 are reserved for the TS	S 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	
Note: The Expe	erimental Result Codes from 5424 to 5449 are reserved for the TS	S 29.272.

5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI ON					
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	29.273 [20]				
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	2.00.070				
	rimental Result Codes from 5453 to 5469 are reserved for the TS					
5470	DIAMETER_ERROR _SUBSESSION	29.215 [22]				
Note: The Expe	rimental Result Codes from 5471 to 5489 are reserved for the TS	S 29.215.				
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET   WORK	29.173 [25]				
Note: The Expe	rimental Result Codes from 5491 to 5509 are reserved for the TS	S 29.173.				
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI					
	TY	29.336 [28]				
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE					
Note: The Expe	rimental Result Codes from 5512 to 5529 are reserved for the TS	S 29.336.				
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS					
5531	DIAMETER_ERROR_SC_CONGESTION	29.337 [29]				
5532	DIAMETER_ERROR_SM_PROTOCOL					
Note: The Expe	rimental Result Codes from 5533 to 5549 are reserved for the TS	S 29.337.				
5550	DIAMETER_ERROR_ABSENT_USER					
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS					
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED					
5553	DIAMETER_ERROR_ILLEGAL_USER					
5554	DIAMETER_ERROR_ILLEGAL_EQUIPMENT	29.338 [30]				
5555	DIAMETER_ERROR_SM_DELIVERY_FAILURE					
5556	DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED					
5557	DIAMETER_ERROR_SERVICE_BARRED					
5558	DIAMETER_ERROR_MWD_LIST_FULL					
Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338.						

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

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

#### A.1 Application identifiers

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

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

#### A.2 Command codes

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

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

#### A.3 AVP codes

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

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

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

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

#### A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

# Annex B (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292			Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25	NP-040401			Correction of Charging application reference	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401			Removal of User Data Request Type AVP	6.0.0	6.1.0
2004-09	CN#25	NP-040412		1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26	NP-040579		ļ.,	Inclusion of missing Cx AVPs	6.1.0	6.2.0
2004-12	CN#26	NP-040580		1	Reservation of command code 310	6.1.0	6.2.0
2004-12	CN#26	NP-040579		1	Addition of Gmb interface	6.1.0	6.2.0
2004-12	CN#26	NP-040600		2	Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047		1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039			Allocations for Gx interface		
		NP-050039		-	Allocations for Gmb interface		
0005.00	OT#00	NP-050039			Allocations for MMS, MM10 Interface	0.0.0	0.40
2005-06	CT#28	CP-050088		4	Gx interface allocation correction	6.3.0	6.4.0
2005.00	CT#20	CP-050196		1	Addition of Maximum-Number-Accesses AVP	C 4 O	0.5.0
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.4.0	6.5.0
		CP-050310 CP-050310		-	Addition of Pr reference point to TS 29.230 Error code cleanup	1	
		CP-050310			Addition of Rx ref. point and renaming of Experimental Result	}	
		CF-030310	0036		Codes		
2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-12	CT#30	CP-050624	0058		Addition of GBA-Type AVP	7.0.0	7.1.0
		CP-050612	0063		Additional Gmb AVP Allocation		
		CP-050612			Reservation of AVP codes for 32.299		
		CP-050625	0066		Management of Sh subscriptions		
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
		CP-060084			User-Data in the response to Sh-Subs-Notif	]	
		CP-060084	0072	1	New error indications for the Sh-Subs-Notif procedure		
2006-06	CT#32	CP-060302			S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417		3	New AVP Code	7.3.0	7.4.0
		CP-060417			Errors to be sent in response to Sh-Notif	ļ	
		CP-060417			Definition of specific Diameter codes for DSAI		
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
		CP-060562		-	Addition of Diameter Error Code for Emergency Purposes		
		CP-060555			Allocation of new AVP codes for Gmb		
		CP-060555			AVP code allocations for Rf and Ro interfaces		
0007.00	07,405	CP-060566			Allocation of Success Result Code Range for Gi Interface	7.5.0	7.0.0
2007-03	CT#35	CP-070020			C3 requested addition of new AVP code values to 3GPP TS 29.230	7.5.0	7.6.0
		CP-070020			Allocation of new AVP code for DSAI-Tag AVP	1	
2007-06	CT#36	CP-070020 CP-070318		-	Allocation of Experimental-Result-Code AVP for Gi Interface	7.6.0	7.7.0
2007-00	01#30	CP-070318 CP-070312			Diameter application ID for the Rel-7 Rx interface  Experimental-Result-Codes for Gmb interface	7.0.0	1.7.0
		CP-070312 CP-070312			Correction of Diameter AVP code allocation	1	
2007-09	CT#37	CP-070512			Application ID for Gx protocol	7.7.0	7.8.0
2007-09	CT#37	CP-070327		-	AVP code reservation for 32.299 in Rel-7	7.7.0	7.9.0
2001-12	01#30	51 0/0/43	0104	1	Allocation of 3GPP specific AVP codes and Experimental Result	7.0.0	7.3.0
					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#00	OD 00001-	0103		AVP code reservation for 32.299 in Rel-8	0.0.0	0.4.0
2008-03	CT#39	CP-080015		1	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	-	
	1	CP-080019		4	Wildcarded Public User Identities	{	
		CP-080191	0112	1	Correction on AVP code allocation reservation for TS 32.299 in Rel-7		
		CP-080204	0113	1	Correction on AVP code allocation reservation for TS 32.299	Ī	
2008-06	CT#40	CP-080267			A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-09	CT#41	CP-080456			Emergency Public User Identity Removal	8.2.0	8.3.0
2008-09	CT#41	CP-080460		1	Support of "Loose-Route" indication from HSS	]	
2008-09	CT#41	CP-080460	0122	1	STaMIP Application Id	]	
2008-09	CT#41	CP-080463			Cx Impacts of IMS Restoration Procedures (New AVP Codes		

	CT#41	CP-080463			Assignment)  New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42	CP-080691			Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691	0128	1	Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044	0130	1	Update for ReadyForSM	8.4.0	8.5.0
2009-03	CT#43	CP-090044	0131	1	Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090026	0132		Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033		2	Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	AVP codes for S9 protocol	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	Location of Permanent Failure result code range for the S9 application	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0141		AVPs for TS 29.273	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0142	1	Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299	0129	4	Update of the AVP Codes	8.5.0	8.6.0
		CP-090299			AVP code reservation for TS 32.299	1	
	i	CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"	1	
		0. 000200	0146		Removal of Requesting Node Type from AIR	-	
		CP-090299			S6b Application ID	1	
2000 00	CT#45	CP-090299				0.6.0	0.7/
2009-09	CT#45			<del>                                     </del>	Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.
	1	CP-090530		<b> </b>	AVP code allocation for TS 29.212	-	
		CP-090531		ļ	Update of the AVP type for the User-Id	4	
		CP-090531		<u> </u>	Trace Depth per session	 	<u> </u>
2009-09	CT#45	CP-090557			AVP code range for charging	8.7.0	9.0.
2009-12	CT#46	CP-090800	-	1	ICS-Flag	9.0.0	9.1.
	1	CP-091032			From GMLC-Address to GMLC-Number	1	
	1		0160		Session-Priority AVP	1	
			0163	2	Introduction of SLh application related AVPs and Experimental Result codes		
			0166		Missing AVP error codes		
		CP-090797		1	Introduction of SLg application related AVPs and Application		
					Identifier		
2010-03	CT#47	CP-100031	0158	1	Wildcarded Public Identity	9.1.0	9.2.
		CP-100034			Correction on AVP code allocation reservation for TS 32.299 in		
					Rel-9		
		CP-100046	0169	1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109		
		CP-100046			Error codes in 29.172 for SLg		İ
		CP-100048		1	AVPs in 29.272 for TADS support		İ
		CP-100040			Error codes in 29.272 for Unknown MME		
				1			
			IUI/n		TEPS Subcsriber State and Location Information Request		
		CP-100236		7	EPS Subcsriber State and Location Information Request One time notification AVP allocation		
		CP-100236 CP-100033	0180	_	One time notification AVP allocation		
		CP-100236 CP-100033 CP-100046	0180 0181		One time notification AVP allocation Addition of the LCS-QoS-Class attribute value		
2010-06	CT#48	CP-100236 CP-100033 CP-100046 CP-100175	0180 0181 0182		One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface	920	93
2010-06	CT#48	CP-100236 CP-100033 CP-100046	0180 0181 0182 0188		One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC	9.2.0	9.3.0
2010-06	CT#48	CP-100236 CP-100033 CP-100046 CP-100175 CP-100263	0180 0181 0182 0188 0183	1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval	9.2.0	9.3.0
2010-06	CT#48	CP-100236 CP-100033 CP-100046 CP-100175 CP-100263 CP-100287	0180 0181 0182 0188 0183 0186	1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID	9.2.0	9.3.0
		CP-100236 CP-100033 CP-100046 CP-100175 CP-100263 CP-100287 CP-100277	0180 0181 0182 0188 0183 0186 0190	1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol		
2010-06	CT#48	CP-100236 CP-100033 CP-100046 CP-100175 CP-100263 CP-100287	0180 0181 0182 0188 0183 0186 0190	1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh	9.2.0	9.3.
		CP-100236 CP-100033 CP-100046 CP-100175 CP-100263 CP-100287 CP-100277 CP-100463	0180 0181 0182 0188 0183 0186 0190 0197	1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces		
2010-09	CT#49	CP-100236 CP-100033 CP-100046 CP-100175 CP-100263 CP-100287 CP-100463 CP-100464	0180 0181 0182 0188 0183 0186 0190 0197	1 1 1 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC	9.3.0	9.4.
2010-09		CP-100236 CP-100033 CP-100046 CP-100175 CP-100263 CP-100277 CP-100463 CP-100464 CP-100465	0180 0181 0182 0188 0183 0186 0190 0197 0196 0193	1 1 1 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator		9.4.
2010-09	CT#49	CP-100236 CP-100033 CP-100046 CP-100175 CP-100263 CP-100277 CP-100463 CP-100464 CP-100465 CP-100466	0180 0181 0182 0188 0183 0186 0190 0197 0196 0193 0198	1 1 1 1 2	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address	9.3.0	9.4.
2010-09	CT#49	CP-100236 CP-100033 CP-100046 CP-100175 CP-100263 CP-100277 CP-100463 CP-100464 CP-100466 CP-100466 CP-100466	0180 0181 0182 0188 0183 0186 0190 0197 0196 0193 0198 0199	1 1 1 1 2	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature	9.3.0	9.4.
2010-09	CT#49	CP-100236 CP-100033 CP-100046 CP-100175 CP-100263 CP-100277 CP-100463 CP-100464 CP-100466 CP-100466 CP-100469	0180 0181 0182 0188 0183 0186 0190 0197 0196 0193 0198 0199 0205	1 1 1 2 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data	9.3.0	9.4.
2010-09	CT#49	CP-100236 CP-100033 CP-100046 CP-100175 CP-100287 CP-100277 CP-100463 CP-100465 CP-100466 CP-100466 CP-100469 CP-100687	0180 0181 0182 0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201	1 1 1 2 1 1 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS	9.3.0	9.4.
2010-09	CT#49	CP-100236 CP-100033 CP-100046 CP-100175 CP-100287 CP-100277 CP-100463 CP-100465 CP-100466 CP-100466 CP-100468 CP-100687 CP-100683	0180 0181 0182 0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200	1 1 1 2 1 1 1 1 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA	9.3.0	9.4.
2010-09	CT#49	CP-100236 CP-100033 CP-100046 CP-100175 CP-100287 CP-100277 CP-100463 CP-100466 CP-100466 CP-100466 CP-100687 CP-100683 CP-100688	0180 0181 0182 0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200	1 1 1 1 2 1 1 1 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription	9.3.0	9.4.
2010-09	CT#49 CT#49 CT#50	CP-100236 CP-100033 CP-100046 CP-100175 CP-100287 CP-100277 CP-100463 CP-100466 CP-100466 CP-100466 CP-100683 CP-100688 CP-100886 CP-100886	0180 0181 0182 0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206	1 1 1 1 2 1 1 1 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic	9.3.0	9.4.
2010-09	CT#49	CP-100236 CP-100033 CP-100046 CP-100175 CP-100263 CP-100277 CP-100463 CP-100465 CP-100466 CP-100699 CP-100699 CP-100688 CP-100688 CP-100688 CP-100688 CP-100684 CP-110051	0180 0181 0182 0188 0183 0186 0190 0197 0196 0193 0199 0205 0201 0200 0206 0203 0212	1 1 2 1 1 1 1 1 1 1 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction	9.3.0	9.4.
2010-09	CT#49 CT#49 CT#50	CP-100236 CP-100033 CP-100046 CP-100175 CP-100263  CP-100277 CP-100463  CP-100464 CP-100466 CP-100466 CP-100699 CP-100683 CP-100688 CP-100688 CP-100688 CP-100684 CP-110051 CP-110054	0180 0181 0182 0188 0183 0186 0190 0197 0196 0193 0199 0205 0201 0200 0206 0203 0212 0215	1 1 2 1 1 1 1 1 1 1 1 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs	9.3.0	9.4.
2010-09	CT#49 CT#49 CT#50	CP-100236 CP-100033 CP-100046 CP-100175 CP-100263  CP-100277 CP-100463  CP-100464 CP-100466 CP-100466 CP-100699 CP-100687 CP-100688 CP-100688 CP-100846 CP-110051 CP-110054 CP-110054 CP-110057	0180 0181 0182 0188 0183 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207	1 1 1 2 1 1 1 1 1 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT)	9.3.0	9.4.
2010-09	CT#49  CT#50  CT#51	CP-100236 CP-100033 CP-100046 CP-100175 CP-100263  CP-100277 CP-100463  CP-100466 CP-100466 CP-100466 CP-100687 CP-100683 CP-100683 CP-100684 CP-100684 CP-110051 CP-110054 CP-110087 CP-110087 CP-110088	0180 0181 0182 0188 0183 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0215 0207 0209	1 1 1 2 1 1 1 1 1 1 1 2	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs	9.3.0 9.4.0 10.0.0	9.4.
2010-09	CT#49 CT#49 CT#50	CP-100236 CP-100033 CP-100046 CP-100175 CP-100263  CP-100277 CP-100463  CP-100464 CP-100465 CP-100466 CP-100687 CP-100687 CP-100688 CP-100680 CP-100846 CP-100846 CP-100846 CP-100846 CP-100840 CP-100846 CP-100846 CP-100846 CP-110051 CP-110054 CP-110087 CP-110088 CP-110088	0180 0181 0182 0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0215 0207 0209 0219	1 1 1 2 1 1 1 1 1 1 1 2 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration	9.3.0	9.4.
2010-09 2010-09 2010-12	CT#49  CT#50  CT#51	CP-100236 CP-100033 CP-100046 CP-100175 CP-100263  CP-100277 CP-100463  CP-100464 CP-100465 CP-100466 CP-100687 CP-100683 CP-100684 CP-100846 CP-100846 CP-110051 CP-110054 CP-110087 CP-110088 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084 CP-110084	0180 0181 0182 0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0209	1 1 1 2 1 1 1 1 1 1 1 2 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup	9.3.0 9.4.0 10.0.0	9.4.
2010-09 2010-09 2010-12	CT#49  CT#50  CT#51	CP-100236 CP-100033 CP-100046 CP-100175 CP-100263  CP-100277 CP-100463  CP-100465 CP-100466 CP-100466 CP-100687 CP-100688 CP-100688 CP-100687 CP-110054 CP-110054 CP-110054 CP-110054 CP-110055 CP-110058 CP-110057 CP-110058	0180 0181 0182 0188 0183 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0209	1 1 1 2 1 1 1 1 1 1 1 2 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces	9.3.0 9.4.0 10.0.0	9.4.
2010-09 2010-09 2010-12	CT#49  CT#50  CT#51	CP-100236 CP-100033 CP-100046 CP-100175 CP-100267 CP-100277 CP-100463 CP-100466 CP-100466 CP-100466 CP-100687 CP-100688 CP-100688 CP-100687 CP-110051 CP-110054 CP-110054 CP-110054 CP-110054 CP-110058 CP-110349 CP-110349 CP-110359 CP-110380	0180 0181 0182 0188 0183 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0209 0219 0226 0216	1 1 1 1 2 1 1 1 1 1 1 1 2 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent	9.3.0 9.4.0 10.0.0	9.4.
2010-09 2010-09 2010-12	CT#49  CT#50  CT#51	CP-100236 CP-100033 CP-100046 CP-100175 CP-100267 CP-100277 CP-100463 CP-100466 CP-100466 CP-100466 CP-100687 CP-100688 CP-100688 CP-100680 CP-110051 CP-110054 CP-110054 CP-110054 CP-110057 CP-110088 CP-110054 CP-110057 CP-110088 CP-110088 CP-110089 CP-110087 CP-110087 CP-110087 CP-110087 CP-110087 CP-110087	0180 0181 0182 0188 0183 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 02216 0223	1 1 1 1 2 1 1 1 1 1 1 1 1 2 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging	9.3.0 9.4.0 10.0.0	9.4.
2010-09 2010-09 2010-12 2011-03	CT#49  CT#49  CT#50  CT#51	CP-100236 CP-100033 CP-100046 CP-100175 CP-100267 CP-100277 CP-100463 CP-100466 CP-100466 CP-100466 CP-100687 CP-100688 CP-100688 CP-100680 CP-110051 CP-110054 CP-110054 CP-110054 CP-110054 CP-110054 CP-110054 CP-110054 CP-110054 CP-110057 CP-110088 CP-110054 CP-110057 CP-110088 CP-110347 CP-110370 CP-110370 CP-110375	0180 0181 0182 0188 0183 0186 0190 0197 0196 0193 0198 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0219 0216 0223 0216	1 1 1 1 2 1 1 1 1 1 1 2 1 1 1 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging PUR-Flags AVP	9.3.0 9.4.0 10.0.0 10.1.0	9.4. 10.0 10.2
	CT#49  CT#50  CT#51	CP-100236 CP-100033 CP-100046 CP-100175 CP-100263  CP-100267 CP-100463  CP-100465 CP-100466 CP-100466 CP-100699 CP-100688 CP-100688 CP-100688 CP-100688 CP-110051 CP-110054 CP-110054 CP-110057 CP-110057 CP-110057 CP-110349 CP-110349 CP-110349 CP-110359 CP-110359 CP-110370 CP-110375 CP-110375 CP-1103559	0180 0181 0182 0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0231 0223 0227	1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging PUR-Flags AVP AVP code alignment with 29.212	9.3.0 9.4.0 10.0.0	9.4. 10.0 10.1
2010-09 2010-09 2010-12 2011-03	CT#49  CT#49  CT#50  CT#51	CP-100236 CP-100033 CP-100046 CP-100175 CP-100267 CP-100277 CP-100463 CP-100466 CP-100466 CP-100466 CP-100687 CP-100688 CP-100688 CP-100680 CP-110051 CP-110054 CP-110054 CP-110054 CP-110054 CP-110054 CP-110054 CP-110054 CP-110054 CP-110057 CP-110088 CP-110054 CP-110057 CP-110088 CP-110347 CP-110370 CP-110370 CP-110375	0180 0181 0182 0188 0183 0186 0190 0197 0196 0193 0198 0199 0205 0201 0200 0206 0203 0212 0215 0207 0209 0219 0223 0227 0223 0223 0223	1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	One time notification AVP allocation Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface AVP Codes for PCC EPS state and location retrieval SGmb Application ID New APVs in S6a protocol Addition of Diameter codes and identifiers for the SLg and SLh interfaces AVP Codes Allocation for PCC SIPTO Permission Indicator Location data including only serving node address AVP for Update-Eff feature Enhanced SRVCC Subscriber Data Allocate codes for AVPs on eMPS Allocate codes for AVPs on LIPA Periodic TAU/RAU timer in HSS subscription S6a Error Diagnostic PDP-Address correction Essential correction on the value type of the ELP Application AVPs Minimization of Drive Tests (MDT) Relay Node Indicator AVPs Handling of RTR for Emergency Registration Add AVPs from QSPEC cleanup MIPv4 security parameters on the STa and S6b interfaces MDT user consent AVP Code Allocation for Pre-paging PUR-Flags AVP	9.3.0 9.4.0 10.0.0 10.1.0	9.4. 10.0 10.1

Ì	Ì	CP-110555	0252		Failure code and AVP code alignment with 29.212		
		CP-110722		2	Priviledged sender		ļ
2011-09	CT#53	CP-110584			Add vSRVCC updates to the Diameter AVP code table	10 4 0	11.0.0
2011 00	01/100	CP-110579		•	AVP code alignment with 32.299	10.1.0	11.0.0
		CP-110555			AVP code reservation for 29.212		
2011-12	CT#54	CP-110812		1	SWx Restoration AVPs	11.0.0	11.1.0
		CP-110812			Sy and Sd Application IDs		
	İ	CP-110775			New AVP codes for MBMS IP unicast encapsulation		
		CP-110775			New AVP codes for MBMS IP multicast encapsulation		
		CP-110786		1	MME-Realm AVP code allocation		
	İ	CP-110811	0277		Equivalent PLMN CSG Subscription Request		
	İ	CP-110781		1	Restoration of Wildcarded-IMPU AVP		
2012-03	CT#55	CP-120025			Codes Allocation for AVPs on Initial Attach	11.1.0	11.2.0
		CP-120038			New AVP codes for Absolute Time of MBMS Data Transfer over		
					SGmb		
		CP-120038	0291	1	Allocating Diameter AVP codes for TS 29.219 and TS 29.212		
2012-06	CT#56	CP-120240	0287	5	Codes Allocation for AVPs on NPLI	11.2.0	11.3.0
	İ	CP-120238	0294	1	Adding new Diameter AVPs to Diameter table to support Trusted		
					WLAN Access feature		
	İ	CP-120225	0296	1	Trust Relationship Indication		
		CP-120251	0297	1	Corrections to reference titles		
	İ	CP-120251	0298	1	Diameter Code Allocation for TS 29.219		
	İ	CP-120247	0300	-	Network Name AVP codes		
		CP-120219	0304	-	Duplicated AVP names		
2012-09	CT#57	CP-120481	0289	3	PS additional number allocation	11.3.0	11.4.0
		CP-120473	0293	4	SMS in MME/SGSN		
		CP-120461			AAA Failure Recovery AVP codes		
		CP-120474	0305	-	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 interface		
		CP-120667	0242	1	GMLC-Name		
		CP-120007	0312				
2042.42	CT#58	CD 400704			Reference list correction to align with the corrected TS 29.212 title	11.4.0	44.5.0
2012-12	C1#58	CP-120731 CP-120731			T4 device triggering via IMS Codes and Identifier Allocation for T4 Specification	11.4.0	11.5.0
		CP-120731			AVP Code Allocation for 29.336	_	
		CP-120731			Diameter AVP code value allocation in TS 29.368	+	
		CP-120731				+	
		CP-120/32	0319	2	Application Identifier, Command Codes and AVP codes for SGd, S6c		
		CP-120716	0324	1	AVP name modification in TS 32.299	1	
	İ	CP-120742		-	UE Time Zone AVP		
	İ	CP-120741	0328	1	Use of Flag instead of Enumerated AVPs		
		CP-120741	332	-	Use of Flag instead of Enumerated AVPs	1	
		CP-120743		-	PSI direct routing with restoration procedures	1	
		CP-120743	333	-	EPS LocationInformation Support		

# History

Document history						
V11.4.0	October 2012	Publication				
V11.5.0	January 2013	Publication				