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Diameter applications; 3GPP specific codes and identifiers (3GPP TS 29.230 version 11.7.0 Release 11)



# Reference RTS/TSGC-0429230vb70 Keywords GSM,LTE,UMTS

#### **ETSI**

650 Route des Lucioles F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

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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	Attribute Name	Data Type	Specified in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
	3GPP-WLAN-QoS-Filter-Support	OctetString	1
	The AVP codes from 1 to 255 are reserved for backwards compatibilit		ndor Specific
	ites (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	Enumerated	
	APN-Authorized	Grouped	+
	APN-Id	Grouped	
		Coursesses	4
	APN-Barring-Type	Enumerated	29.234 [6]
	WLAN-Direct-IP-Access	Enumerated	1
	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	
319	Maximum-Number-Accesses	Unsigned32	
	The AVP codes from 320 to 399 are reserved for TS 29.234		
400	GBA-UserSecSettings	OctetString	
	Transaction-Identifier	OctetString	
	NAF-Hostname	OctetString	
	GAA-Service-Identifier	OctetString	
	Key-ExpiryTime ME-Key-Material	Time OctetString	4
405	UICC-Key-Material	OctetString	
407	GBA_U-Awareness-Indicator	Enumerated	-
408	BootstrapInfoCreationTime	Time	†
	GUSS-Timestamp	Time	1
410	GBA-Type	Enumerated	29.109 [7]
	UE-ld	OctetString	
	UE-Id-Type	Enumerated	
	UICC-App-Label	OctetString	
	UICC-ME	Enumerated	1
	Requested-Key-Lifetime Private-Identity-Request	Time Enumerated	
	GBA-Push-Info	OctetString	1
	NAF-SA-Identifier	OctetString	-
	Security-Feature-Request	OctetString	1
	Security-Feature-Response	OctetString	1
	The AVP codes from 421 to 499 are reserved for TS 29.109		
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	1
	Access-Network-Charging-Identifier	Grouped	1
	Access-Network-Charging-Identifier-Value	OctetString	29.209 [8],
	AF-Application-Identifier	OctetString	29.211 [17] ,
	AF-Charging-Identifier	OctetString	29.214 [18]
	Ar-charging-identifier Authorization-Token	OctetString	20.217[10]
	Flow-Description	IPFilterRule	1
	Flow-Description Flow-Grouping		+
208	riow-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	Contact	OctetString OctetString	
	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	
	Record-Route	OctetString	
	Associated-Registered-Identities	Grouped	
	Multiple-Registration-Indication	Enumerated	
	Restoration-Info	Grouped	
	Session-Priority	Enumerated	
	Identity-with-Emergency-Registration	Grouped	
	Priviledged-Sender-Indication	Enumerated	
003	LIA-Flags The AVP codes from 654 to 699 are reserved for TS 29.229.	Unsigned32	
		Crawaad	
	User-Identity MCICRNI	Grouped	
	MSISDN	OctetString	
	User-Data	OctetString	
	Data-Reference	Enumerated	
	Service-Indication	OctetString	
	Subs-Req-Type  Page vested Demain	Enumerated	
	Requested-Domain	Enumerated	
	Current-Location	Enumerated	
	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	00 000 [4]
	DSAI-Tag	OctetString	29.329 [4]
	One-Time-Notification	Enumerated	
	Requested-Nodes	Unsigned32	
714	Serving-Node-Indication	Enumerated	
	Repository-Data-ID	Grouped	
	Sequence-Number	Unsigned32	
	Pre-paging-Supported	Enumerated	
	Local-Time-Zone-Indication	Enumerated	
	UDR-Flags	Unsigned32	
	Call-Reference-Info	Grouped	
	Call-Reference-Number	OctetString	
	AS-Number The AVR codes from 703 to 700 are recogned for TS 20 220	OctetString	
	The AVP codes from 723 to 799 are reserved for TS 29.329.		
	The AVP codes from 800 to 822 are reserved for TS 32.299.	Cravaad	
	Event-Type	Grouped	
	SIP-Method	UTF8String	
	Event Type	UTF8String	
	Content-Type	UTF8String	
	Content-Length	Unsigned32	
	Content-Disposition	UTF8String	
	Role-of-Node	Enumerated	
	User-Session-Id	UTF8String	
	Calling-Party-Address	UTF8String	
	Called-Party-Address	UTF8String	
	Time-Stamps	Grouped	
	SIP-Request-Timestamp	Time	20 200 [5]
	SIP-Response-Timestamp	Time	32.299 [5]
	Application-Server	UTF8String	
	Application-provided-called-party-address	UTF8String	
	Inter-Operator-Identifier	Grouped	
	Originating-IOI	UTF8String	
	Terminating-IOI	UTF8String	
	IMS-Charging-Identifier	UTF8String	
	SDP-Session-Description	UTF8String	
	SDP-Media-Component	Grouped	
	SDP-Media-Name	UTF8String	
	SDP-Media-Description	UTF8String	
	CG-Address	Address	
847	GGSN-Address	Address	

	Served-Party-IP-Address	Address	
	Authorized-QoS	UTF8String	
	Application-Server-Information	Grouped	
	Trunk-Group-Id	Grouped	
	Incoming-Trunk-Group-Id	UTF8String	
	Outgoing-Trunk-Group-Id	UTF8String	
854	Bearer-Service	OctetString	
855	Service-Id	UTF8String	
856	Associated-URI	UTF8String	
857	Charged-Party	UTF8String	
858	PoC-Controlling-Address	UTF8String	
	PoC-Group-Name	UTF8String	
860	Cause	Grouped	
	Cause-Code	Integer32	
	Node-Functionality	Enumerated	
	Service-Specific-Data	UTF8String	
	Originator	Enumerated	
	PS-Furnish-Charging-Information	Grouped	
	PS-Free-Format-Data	OctetString	
	PS-Append-Free-Format-Data	Enumerated	
	Time-Quota-Threshold	Unsigned32	
	Volume-Quota-Trireshold	Unsigned32	
	Trigger-Type	Enumerated	
	Quota-Holding-Time	Unsigned32	
	Reporting-Reason	Enumerated	
	Service-Information	Grouped	
	PS-Information	Grouped	
	WLAN-Information	Grouped	
	IMS-Information		
		Grouped	
	MMS-Information	Grouped	
	LCS-Information	Grouped	
	PoC-Information	Grouped	
	MBMS-Information	Grouped	
	Quota-Consumption-Time	Unsigned32	
	Media-Initiator-Flag	Enumerated	
	PoC-Server-Role	Enumerated	
	PoC-Session-Type	Enumerated	
	Number-Of-Participants	Unsigned32	
	Originator-Address	Grouped	
	Participants-Involved	UTF8String	
	Expires	Unsigned32	
	Message-Body	Grouped	
	WAG-Address	Address	
	WAG-PLMN-Id	OctetString	
892	WLAN-Radio-Container	Grouped	
	WLAN-Technology	Unsigned32	
	WLAN-UE-Local-IPAddress	Address	
895	PDG-Address	Address	
	PDG-Charging-Id	Unsigned32	
	Address-Data	UTF8String	
	Address-Domain	Grouped	
	Address-Type	Enumerated	
330	,		
900	TMGI	OctectString	
	Required-MBMS-Bearer-Capabilities	UTF8String	
	MBMS-StartStop-Indication	Enumerated	
	MBMS-Service-Area	OctectString	
	MBMS-Service-Area MBMS-Session-Duration	Unsigned32	
	Alternative-APN	UTF8String	
			29.061 [13]
	MBMS-Service-Type	Enumerated	
	MBMS-2G-3G-Indicator	Enumerated	
	MBMS-Session-Identity	OctetString	
909		UTF8String	
	Additional-MBMS-Trace-Info	OctetString	
911	MBMS-Time-To-Data-Transfer	Unsigned32	

912   MBMS-Session-Identity-Repetition-Number				
1914   MBMS-Counting-Information			Unsigned32	
915   MBMS-GSN-L496-Indication				
916   MBMS-GGSN-Address				
918 MBMS-GSN-Hy-Fv-Address				
918 MBMS-BMSC-SSM-IP-Address				
1919   MBMS-BMSC-SSM-IPv6-Address				
2920   MBMS-Flow-Identifier				
222   MBMS-HC-Indicator			UTF8String	
1922   MBMS-HC-Indicator	920	MBMS-Flow-Identifier	OctetString	
BMSM-Access-Indicator	921	CN-IP-Multicast-Distribution	Enumerated	
Q24   MBMS-GW-SSM-IP-Address   OctetString   Q26   MBMS-BMSC-SSM-UDP-Port   OctetString   Q26   MBMS-BMSC-SSM-UDP-Port   OctetString   Q27   MBMS-BMSC-SSM-UDP-Port   OctetString   Q28   MBMS-BMSC-SSM-UDP-Port   OctetString   Q28   MBMS-GW-UDP-Port-Indicator   Enumerated   Unsigned64   Q29   MBMS-Data-Transfer-Start   Unsigned64   Q29   MBMS-Data-Transfer-Start   Unsigned64   Q29   MBMS-Data-Transfer-Start   Unsigned64   Q29   MBMS-Data-Transfer-Start   Unsigned64   Q20   Q2	922	MBMS-HC-Indicator	Enumerated	
MBMS-GW-SSM-IPv6-Address   OctelString	923	MBMS-Access-Indicator	Enumerated	
BMS-BMSC-SSM-UDP-Port	924	MBMS-GW-SSM-IP-Address	OctetString	
MBMS-GW-UDP-Port-Indicator	925	MBMS-GW-SSM-IPv6-Address	OctetString	
BIMS-GW-UDP-Port-Indicator	926	MBMS-BMSC-SSM-UDP-Port	OctetString	
BBMS-Data-Transfer-Start	927	MBMS-GW-UDP-Port	OctetString	
MBMS-Data-Transfer-Stop	928	MBMS-GW-UDP-Port-Indicator	Enumerated	
MBMS-Data-Transfer-Stop				
Note: The AVP codes from 929 to 999 are reserved for TS 29.061				
1000   Bearer-Usage			9	<u> </u>
1001   Charging-Rule-Netall   Grouped			Enumerated	
1002   Charging-Rule-Definition   Grouped				
1003   Charging-Rule-Base-Name				
1006   Charging-Rule-Base-Name				
1006   Charging-Rule-Name				
1006   Event-Trigger				
1007   Metering-Method			· ·	
Topic				
1010   Precedence				
1010   Precedence				
1011   Reporting-Level				
1012   TFT-Fitter			<u> </u>	
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-Operation   Enumerated     1021   Bearer-Operation   Enumerated     1022   Access-Network-Charging-Identifier-Gx   Grouped     1023   Bearer-Control-Mode   Enumerated     1024   Network-Request-Support   Enumerated     1025   Guaranteed-Bitrate-DL   Unsigned32     1026   Guaranteed-Bitrate-UL   Unsigned32     1027   IP-CAN-Type   Enumerated     1029   QoS-Class-Identifier   Enumerated     1030   QoS-Upgrade   Enumerated     1031   Rule-Failure-Code   Enumerated     1032   RAT-Type   Enumerated     1033   Event-Report-Indication   Grouped     1034   Allocation-Retention-Priority   Grouped     1035   CoA-IP-Address   Address     1036   Tunnel-Header-Filter   IPFilterRule     1037   Tunnel-Header-Filter   IPFilterRule     1038   Tunnel-Information   Grouped     1039   CoA-Information   Grouped     1040   APN-Aggregate-Max-Bitrate-DL   Unsigned32     1041   APN-Aggregate-Max-Bitrate-DL   Unsigned32     1042   Revalidation-Time   Time     1043   Rule-Pactivation-Time   Time     1044   Session-Release-Cause   Enumerated     1045   Session-Release-Cause   Enumerated     1046   Enumerated   Enumerated     1047   PR-Aggregate-Max-Bitrate-UL   Unsigned32     1048   Rule-DeActivation-Time   Time     1049   Session-Release-Cause   Enumerated     1040   Enumerated   Enumerated     1041   PR-Aggregate-Max-Bitrate-UL   Time     1045   Session-Release-Cause   Enumerated     1046   Enumerated   Enumerated     1047   Enumerated   Enumerated     1048   Rule-DeActivation-Time   Time     1049   Session-Release-Cause   Enumerated     1040   Enumerated     1041   Enumerated   Enumerated     1042   Enumerated   Enumerated     1043   Rule-Pactivation-Time   Time     1044   Enumerated   Enumerated   Enumerated     1045   Enumerated   Enumerated   Enumerated     1046   Enumerated   Enumerated   Enumerated     104				
ToS-Traffic-Class				
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     1026   Guaranteed-Bitrate-UL   Unsigned32     1027   IP-CAN-Type   Enumerated     1029   QoS-Negotiation   Enumerated     1029   QoS-Negotiation   Enumerated     1030   QoS-Upgrade   Enumerated     1031   Rule-Failure-Code   Enumerated     1032   RAT-Type   Enumerated     1033   Event-Report-Indication   Grouped     1034   Allocation-Retention-Priority   Grouped     1035   CoA-IP-Address   Address     1036   Tunnel-Header-Filter   IPFilterRule     1037   Tunnel-Header-Length   Unsigned32     1038   Tunnel-Header-Length   Unsigned32     1040   APN-Aggregate-Max-Bitrate-DL   Unsigned32     1041   APN-Aggregate-Max-Bitrate-DL   Unsigned32     1042   Revalidation-Time   Time     1043   Rule-DeActivation-Time   Time     1044   Rule-DeActivation-Time   Time     1045   Session-Release-Cause   Enumerated     1045   Session-Release-Cause   Enumerated     1046   Rule-DeActivation-Time   Time     1046   Session-Release-Cause   Enumerated     1046   Rule-DeActivation-Time   Time     1047   Time   Time     1048   Tunnel-DeActivation-Time   Time     1049   Time   Time     1040   Time   Time     1045   Time   Time     1046   Time   Time     1047   Time   Time     1048   Time   Time     1049   Time   Time     1049   Time   Time     1040   Time   Time     1045   Session-Release-Cause   Enumerated     1046   Time   Time     1047   Time   Time     1048   Time   Time     1049   Time   Time     1040   Time   Time     1045   Time   Time     1046   Time   Time     1047   Time   Time     1048   Time   Time     1049   Time   Time     1040   T				
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   1024   Network-Request-Support   Enumerated   1025   Guaranteed-Bitrate-DL   Unsigned32   1026   Guaranteed-Bitrate-UL   Unsigned32   1027   IP-CAN-Type   Enumerated   1028   QoS-Class-Identifier   Enumerated   1029   QoS-Negotiation   Enumerated   1030   QoS-Upgrade   Enumerated   1031   Rule-Failure-Code   Enumerated   1031   Rule-Failure-Code   Enumerated   1032   RAT-Type   Enumerated   1033   Event-Report-Indication   Grouped   1034   Allocation-Retention-Priority   Grouped   1035   CoA-IP-Address   Address   1036   Tunnel-Header-Length   Unsigned32   1037   Tunnel-Header-Length   Unsigned32   1038   Tunnel-Information   Grouped   1040   APN-Aggregate-Max-Bitrate-DL   Unsigned32   1041   APN-Aggregate-Max-Bitrate-DL   Unsigned32   1042   Revalidation-Time   Time   1044   Rule-DeActivation-Time   Time   1045   Session-Release-Cause   Enumerated   Enumerated   1045   Session-Release-Cause   Enumerated   1046   Enumerated   1046   Enumerated   1047   Enumerated   1048   Enumerated   1048   Enumerated   1049   Enumerated   1				
1020   Bearer-Operation				
1021   Bearer-Operation				
1022   Access-Network-Charging-Identifier-Gx   Grouped     1023   Bearer-Control-Mode   Enumerated     1024   Network-Request-Support   Enumerated     1025   Guaranteed-Bitrate-DL   Unsigned32     1026   Guaranteed-Bitrate-UL   Unsigned32     1027   IP-CAN-Type   Enumerated     1028   QoS-Class-Identifier   Enumerated     1029   QoS-Negotiation   Enumerated     1030   QoS-Upgrade   Enumerated     1031   Rule-Failure-Code   Enumerated     1032   RAT-Type   Enumerated     1033   Event-Report-Indication   Grouped     1034   Allocation-Retention-Priority   Grouped     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-DL   Unsigned32     1042   Revalidation-Time   Time     1043   Rule-DeActivation-Time   Time     1044   Rule-DeActivation-Time   Time     1045   Session-Release-Cause   Enumerated     29.212 [19]     29.212 [104]     29.212 [104]     29.2				
1023   Bearer-Control-Mode				
1024   Network-Request-Support				
1025Guaranteed-Bitrate-DLUnsigned321026Guaranteed-Bitrate-ULUnsigned321027IP-CAN-TypeEnumerated1028QoS-Class-IdentifierEnumerated1029QoS-NegotiationEnumerated1030QoS-UpgradeEnumerated1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-DLUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated				20 242 [40]
1026 Guaranteed-Bitrate-ULUnsigned321027 IP-CAN-TypeEnumerated1028 QoS-Class-IdentifierEnumerated1029 QoS-NegotiationEnumerated1031 QoS-UpgradeEnumerated1031 Rule-Failure-CodeEnumerated1032 RAT-TypeEnumerated1033 Event-Report-IndicationGrouped1034 Allocation-Retention-PriorityGrouped1035 CoA-IP-AddressAddress1036 Tunnel-Header-FilterIPFilterRule1037 Tunnel-Header-LengthUnsigned321038 Tunnel-InformationGrouped1039 CoA-InformationGrouped1040 APN-Aggregate-Max-Bitrate-DLUnsigned321041 APN-Aggregate-Max-Bitrate-ULUnsigned321042 Revalidation-TimeTime1043 Rule-Activation-TimeTime1044 Rule-DeActivation-TimeTime1045 Session-Release-CauseEnumerated				23.212[13]
1027 IP-CAN-TypeEnumerated1028 QoS-Class-IdentifierEnumerated1029 QoS-NegotiationEnumerated1030 QoS-UpgradeEnumerated1031 Rule-Failure-CodeEnumerated1032 RAT-TypeEnumerated1033 Event-Report-IndicationGrouped1034 Allocation-Retention-PriorityGrouped1035 CoA-IP-AddressAddress1036 Tunnel-Header-FilterIPFilterRule1037 Tunnel-Header-LengthUnsigned321038 Tunnel-InformationGrouped1039 CoA-InformationGrouped1040 APN-Aggregate-Max-Bitrate-DLUnsigned321041 APN-Aggregate-Max-Bitrate-ULUnsigned321042 Revalidation-TimeTime1043 Rule-Activation-TimeTime1044 Rule-DeActivation-TimeTime1045 Session-Release-CauseEnumerated				
1028 QoS-Class-IdentifierEnumerated1029 QoS-NegotiationEnumerated1030 QoS-UpgradeEnumerated1031 Rule-Failure-CodeEnumerated1032 RAT-TypeEnumerated1033 Event-Report-IndicationGrouped1034 Allocation-Retention-PriorityGrouped1035 CoA-IP-AddressAddress1036 Tunnel-Header-FilterIPFilterRule1037 Tunnel-Header-LengthUnsigned321038 Tunnel-InformationGrouped1039 CoA-InformationGrouped1040 APN-Aggregate-Max-Bitrate-DLUnsigned321041 APN-Aggregate-Max-Bitrate-ULUnsigned321042 Revalidation-TimeTime1043 Rule-Activation-TimeTime1044 Rule-DeActivation-TimeTime1045 Session-Release-CauseEnumerated				
1029QoS-NegotiationEnumerated1030QoS-UpgradeEnumerated1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated				
1030QoS-UpgradeEnumerated1031Rule-Failure-CodeEnumerated1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated				
1031         Rule-Failure-Code         Enumerated           1032         RAT-Type         Enumerated           1033         Event-Report-Indication         Grouped           1034         Allocation-Retention-Priority         Grouped           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		0		
1032RAT-TypeEnumerated1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated				
1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated				
1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated				
1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated				
1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated				
1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated				
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				
1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated				
1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated				
1041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated				
1042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated				
1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated				
1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated				
1045 Session-Release-Cause Enumerated				
1046 Priority-Level Unsigned32				
	1046	Priority-Level	Unsigned32	

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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 OctetString	
1056 Security-Parameter-Index 1057 Flow-Label	OctetString	
1057 Flow-Laber	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 1088 TDF-Application-Identifier	Grouped OctetString	
1089 TDF-Application-Identifier	DiameterIdentity	
1090 TDF-Destination-Realm	DiameterIdentity	
1091 TDF-IP-address	Address	
1091   IDI-II-laddiess	Grouped	
1093 ADC-Rule-Remove	Grouped	
1094 ADC-Rule-Definition	Grouped	
1095 ADC-Rule-Base-Name	UTF8String	
1096 ADC-Rule-Name	OctetString	
1097 ADC-Rule-Report	Grouped	
1098 Application-Detection-Information	Grouped	
1099 PS-to-CS-Session-Continuity	Enumerated	
Note: The AVP codes from 1082 to 1084 are reserved for TS 29.212		
1100 Served-User-Identity	Groupe	
1101 VASP-ID	UTF8Str	
1102 VAS-ID	UTF8String	
1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address	Grouped	
1106 Result-Recipient-Address	Grouped	29.140 [16]
1107 Sequence-Number	Unsigned32	20.170 [10]
1108 Recipient-Address	UTF8String	
1109 Routeing-Address	UTF8String	
1109 Routeing-Address 1110 Originating-Interface	UTF8String Enumerated	
<ul><li>1109 Routeing-Address</li><li>1110 Originating-Interface</li><li>1111 Delivery-Report</li></ul>	UTF8String Enumerated Enumerated	
1109 Routeing-Address 1110 Originating-Interface	UTF8String Enumerated	

1114 Service-Key	UTF8String	
1115 Billing-Information	UTF8String	
1116 Status	Grouped	
1117 Status-Code	UTF8String	
1118 Status-Text	UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	1,7700	
1200 Domain-Name	UTF8String	
1201 Recipient-Address	Grouped	
1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size	Unsigned32	
1207 Additional-Content-Information	Grouped	
1208 Addressee-Type	Enumerated	
1209 Priority	Enumerated	
1210 Message-ID	UTF8String	
1211 Message-Type	Enumerated	
1212 Message-Size	Unsigned32	
1213 Message-Class 1214 Class-Identifier	Grouped	
1214 Class-Identifier 1215 Token-Text	Enumerated	
1215 Token-Text 1216 Delivery-Report-Requested	UTF8String Enumerated	
1216 Delivery-Report-Requested 1217 Adaptations	Enumerated Enumerated	
1217 Adaptations 1218 Applic-ID	UTF8String	
1219 Aux-Applic-Info	UTF8String	
1220 Content-Class	Enumerated	
1221 DRM-Content	Enumerated	
1222 Read-Reply-Report-Requested	Enumerated	
1223 Reply-Applic-ID	UTF8String	
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	32.299 [5]
1230 Deferred-Location-Even-Type	UTF8String	02.200 [0]
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	

1050 Double in out Access Drievits	Course a reste al	
1259 Participant-Access-Priority	Enumerated	
1260 Participant-Group	Grouped	
1261 PoC-Change-Conditions	Enumerated	
1262 PoC-Change-Time	Time	
1263 Access-Network-Information	OctetString	
1264 Trigger	Grouped	
1265 Base-Time-Interval	Unsigned32	
1266 Envelope	Grouped	
1267 Envelope-End-Time	Time	
1268 Envelope-Reporting	Enumerated	
1269 Envelope-Start-Time	Time	
1270 Time-Quota-Mechanism	Grouped	
1271 Time-Quota-Type	Enumerated	
1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps	Grouped	
1274 SDP-Offer-Timestamp	Time	
1275 SDP-Answer-Timestamp	Time	
1276 AF-Correlation-Information	Grouped	
1277 PoC-Session-Initiation-type	Enumerated	
1278 Offline-Charging	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
Note: The AVP codes from 1289 to 1399 are reserved for TS 32.299	The country of	
1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	
1403 Software-Version	UTF8String	
1403 Software-Version 1404 QoS-Subscribed	UTF8String	
1405 ULR-Flags	Unsigned32	
1406 ULA-Flags 1407 Visited PLMN Id	Unsigned32	
	OctetString	
1408 Requested-EUTRAN-Authentication-Info	Grouped	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped	
1410 Number-Of-Requested-Vectors	Unsigned32	
1411 Re-Synchronization-Info	OctetString	
1412 Immediate-Response-Preferred	Unsigned32	
1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	29.272 [21]
1417 Network-Access-Mode	Enumerated	[1]
1418 HPLMN-ODB	Enumerated	
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
1426 Access-Restriction-Data	UTF8String	
1427 APN-OI-Replacement	UTF8String	
1428 All-APN-Configurations-Included-Indicator	Enumerated	
1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile	Grouped	
1432 VPLMN-Dynamic-Address-Allowed	Enumerated	
1433 STN-SR	OctetString	
<u></u>		

1434 Alert-Reason	Enumerated
1435 AMBR	Grouped
1436 CSG-Subscription-Data	Grouped
1437 CSG-ld	Unsigned32
1438 PDN-GW-Allocation-Type	Enumerated
1439 Expiration-Date	Time
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32
1441 IDA-Flags	Unsigned32
1442 PUA-Flags	Unsigned32
1443 NOR-Flags	Unsigned32
1444 User-Id	UTF8String
1445 Equipment-Status	Enumerated
1446 Regional-Subscription-Zone-Code	OctetString
1447 RAND	OctetString
1448 XRES	OctetString
1449 AUTN	OctetString
1450 KASME	OctetString
1451 Reserved	-
1452 Trace-Collection-Entity	Address
1453 Kc	OctetString
1454 SRES	OctetString
1455 Reserved	-
1456 PDN-Type	Enumerated
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated
1458 Trace-Data	Grouped
1459 Trace-Reference	OctetString
1460 Reserved	-
1461 Reserved	
1462 Trace-Depth	Enumerated
1463 Trace-NE-Type-List	OctetString
1464 Trace-Interface-List	OctetString
1465 Trace-Event-List	OctetString
1466 OMC-Id	OctetString
1467 GPRS-Subscription-Data	Grouped
1468 Complete-Data-List-Included-Indicator	Enumerated
1469 PDP-Context	Grouped
1470 PDP-Type	
1470 PDP-1ype 1471 3GPP2-MEID	OctetString
	OctetString Grouped
1472 Specific-APN-Info	<u> </u>
1473 LCS-Info 1474 GMLC-Number	Grouped
	OctetString
1475 LCS-PrivacyException	Grouped
1476 SS-Code	OctetString
1477 SS-Status	Grouped
1478 Notification-To-UE-User	Enumerated
1479 External-Client	Grouped
1480 Client-Identity	OctetString
1481 GMLC-Restriction	Enumerated
1482 PLMN-Client	Enumerated
1483 Service-Type	Grouped
1484 ServiceTypeIdentity	Unsigned32
1485 MO-LR	Grouped
1486 Teleservice-List	Grouped
1487 TS-Code	Enumerated
1488 Call-Barring-Info	Grouped
1489 SGSN-Number	OctetString
1490 IDR-Flags	Unsigned32
	Enumerated
1491 ICS-Indicator	
	Enumerated
<ul> <li>1491 ICS-Indicator</li> <li>1492 IMS-Voice-Over-PS-Sessions-Supported</li> <li>1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions</li> </ul>	Enumerated Enumerated
1492 IMS-Voice-Over-PS-Sessions-Supported 1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated
<ul> <li>1492 IMS-Voice-Over-PS-Sessions-Supported</li> <li>1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions</li> <li>1494 Last-UE-Activity-Time</li> </ul>	Enumerated Time
<ul> <li>1492 IMS-Voice-Over-PS-Sessions-Supported</li> <li>1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions</li> <li>1494 Last-UE-Activity-Time</li> <li>1495 EPS-User-State</li> </ul>	Enumerated Time Grouped
<ul> <li>1492 IMS-Voice-Over-PS-Sessions-Supported</li> <li>1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions</li> <li>1494 Last-UE-Activity-Time</li> </ul>	Enumerated Time

1499 User-State		Enumerated	
	_		
1500 Non-3GPP-U		Grouped	
1501 Non-3GPP-IF		Enumerated	
1502 Non-3GPP-IF	P-Access-APN	Enumerated	
1503 AN-Trusted		Enumerated	
1504 ANID		UTF8String	
1505 Trace-Info 1506 MIP-FA-RK		Grouped	
1506 MIP-FA-RK	· DI	OctetString Unsigned32	
1507 MIP-FA-RK-S		Unsigned32	
1509 WLAN-Identif	ior	Grouped	
1510 TWAN-Acces		Grouped	
1510 Access-Author		Unsigned32	
1512 TWAN-Defau		Unsigned32	29.273 [20]
1513 Reserved	II-AI N-Context-Id	- Unsignedsz	
1514 Reserved		_	
1515 Reserved		_	
1516 Full-Network-	Name	OctetString	
1517 Short-Network		OctetString	
1518 AAA-Failure-		Unsigned32	
1519 Transport-Ac		Enumerated	
1520 DER-Flags		Unsigned32	
1521 DEA-Flags		Unsigned32	
1522 RAR-Flags		Unsigned32	
1523 DER-S6b-Fla	os .	Unsigned32	
	es from 1524 to 1599 are reserved for TS 29.273	One group	
1600 MME-Locatio		Grouped	
1601 SGSN-Locati		Grouped	
1602 E-UTRAN-Ce		OctetString	
1603 Tracking-Are		OctetString	
1604 Cell-Global-Id		OctetString	
1605 Routing-Area		OctetString	
1606 Location-Area		OctetString	
1607 Service-Area		OctetString	
1608 Geographical		OctetString	
1609 Geodetic-Info	rmation	OctetString	
1610 Current-Loca	tion-Retrieved	Enumerated	
1611 Age-Of-Locat	ion-Information	Unsigned32	
1612 Active-APN		Grouped	
1613 SIPTO-Permi	ssion	Enumerated	
1614 Error-Diagno		Enumerated	
1615 UE-SRVCC-0	Capability	Enumerated	
1616 MPS-Priority		Unsigned32	
1617 VPLMN-LIPA		Enumerated	
1618 LIPA-Permiss		Enumerated	29.272 [21]
	eriodic-RAU-TAU-Timer	Unsigned32	20.212 [21]
1620 Ext-PDP-Typ		OctetString	
1621 Ext-PDP-Add		Address	
1622 MDT-Configu	ration	Grouped	
1623 Job-Type		Enumerated	
1624 Area-Scope		Grouped	
1625 List-Of-Meas		Unsigned32	
1626 Reporting-Tri		Unsigned32	
1627 Report-Interv		Enumerated	
1628 Report-Amou		Enumerated	
1629 Event-Thresh		Unsigned32	
1630 Event-Thresh		Unsigned32	
1631 Logging-Inter		Enumerated	
1632 Logging-Dura		Enumerated	
1633 Relay-Node-I		Enumerated	
1634 MDT-User-Co	onsent	Enumerated	
1635 PUR-Flags	ODV (00	Unsigned32	
1636 Subscribed-V		Enumerated	
1637 Equivalent-Pl	_MN-List	Grouped	

Leas lot D. Et	T I	
1638 CLR-Flags	Unsigned32	
1639 UVR-Flags	Unsigned32	
1640 UVA-Flags	Unsigned32	
1641 VPLMN-CSG-Subscription-Data	Grouped	
1642 Time-Zone	UTF8String	
1643 A-MSISDN	OctetString	
1644 Reserved	-	
1645 MME-Number-for-MT-SMS	OctetString	
1646 Reserved	-	
1647 Reserved	_	
	Enumerated	
1648 SMS-Register-Request		
1649 Local-Time-Zone	Grouped	
1650 Daylight-Saving-Time	Enumerated	
1651 GMLC-Info	Grouped	
1652 GMLC-Name	DiameterIdentity	
1653 GMLC-Realm	DiameterIdentity	
1654 Subscription-Data-Flags	Unsigned32	
1655 Measurement-Period-LTE	Enumerated	
1656 Measurement-Period-UMTS	Enumerated	
1657 Collection-Period-RRM-LTE	Enumerated	
1658 Collection-Period-RRM-UMTS	Enumerated	
1659 Positioning-Method	OctetString	
1660 Measurement-Quantity	OctetString	
1661 Event-Threshold-Event-1F	Integer32	
1662 Event-Threshold-Event-1I	Integer32	
1663 Restoration-Priority	Unsigned32	
1664 Reserved	-	
1665 Reserved	-	
Note: The AVP codes from 1666 to 1699 are reserved for TS 29.272.	-	
2000 SMS-Information	Grouped	
2001 Data-Coding-Scheme	Integer32	
2002 Destination-Interface	Grouped	
2003 Interface-Id		
	UTF8String	
2004 Interface-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	
	ŭ	
2016 SMS-Node	Enumerated	
2017 SMSC-Address	Address	32.299 [5]
2018 Client-Address	Address	[-1
2019 Number-of-Messages-Sent	Unsigned32	
2020 Low-Balance-Indication	Enumerated	
2021 Remaining-Balance	Grouped	
2022 Refund-Information	OctetString	
2023 Carrier-Select-Routing-Information	UTF8String	
2024 Number-Portability-Routing-Information	UTF8String	
2025 PoC-Event-Type	Enumerated	
2026 Recipient-Info	Grouped	
2027 Originator-Received-Address	Grouped	
2028 Recipient-Received-Address	Grouped	
2029 SM-Service-Type	Enumerated	
2030 MMTel-Information	Grouped	
2031 MMTel-Sservice-Type	Unsigned32	
2032 Service-Mode	Unsigned32	
2033 Subscriber-Role	Enumerated	
2034 Number-Of-Diversions	Unsigned32	
2035 Associated-Party-Address	UTF8String	
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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	1
2050 PDN-Connection-Charging-Id	Unsigned32	1
2051 Dynamic-Address-Flag	Enumerated	1
2052 Accumulated-Cost	Grouped	1
2053 AoC-Cost-Information	Grouped	
2054 AoC-Information	Grouped	
2055 AoC-Request-Type	Enumerated	1
2056 Current-Tariff	Grouped	1
2057 Next-Tariff	Grouped	1
2058 Rate-Element	Grouped	1
2059 Scale-Factor	Grouped	1
2060 Tariff-Information	Grouped	1
2061 Unit-Cost	Grouped	1
2062 Incremental-Cost	Grouped	+
2063 Local-Sequence-Number	Unsigned32	+
2064 Node-Id	UTF8String	
	Ŭ	_
2065 SGW-Change	Enumerated Enumerated	4
2066 Charging-Characteristic-Selection-Mode 2067 SGW-Address		_
	Address	
Note: The AVP codes from 2068 to 2099 are reserved for TS 32.299	T	1
2100 reserved 2101 Application-Server-ID	- UTF8String	
12101 IADDIICATION-Server-ID	T OTESSIIING	
	· ·	-
2102 Application-Service-Type	Enumerated	-  -
2102 Application-Service-Type 2103 Application-Session-ID	Enumerated Unsigned32	- - -
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status	Enumerated Unsigned32 UTF8String	
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved	Enumerated Unsigned32 UTF8String -	
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved	Enumerated Unsigned32 UTF8String	
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved	Enumerated Unsigned32 UTF8String	
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved	Enumerated Unsigned32 UTF8String -	
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved	Enumerated Unsigned32 UTF8String	32.299 [5]
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2110 IM-Information	Enumerated Unsigned32 UTF8String Grouped	32.299 [5]
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded	Enumerated Unsigned32 UTF8String Grouped Unsigned32	32.299 [5]
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent	Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32	32.299 [5]
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Exploded	Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32	32.299 [5]
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Exploded 2113 Total-Number-Of-Messages-Sent	Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	32.299 [5]
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Exploded 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information	Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped	32.299 [5]
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID	Enumerated Unsigned32 UTF8String  Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned34 Unsigned35 Unsigned364 Unsigned365 Unsigned37	32.299 [5]
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID	Enumerated Unsigned32 UTF8String  Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned34 Unsigned35 Unsigned35 Unsigned36 UTF8String UTF8String	32.299 [5]
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code	Enumerated Unsigned32 UTF8String  Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned34 Unsigned35 Unsigned364 Unsigned365 Unsigned37	32.299 [5]
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299	Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated	32.299 [5]
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info	Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped	32.299 [5]
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Enforcement-Info	Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated  Grouped Grouped	
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Enforcement-Info 2201 Subsession-Inforcement-Info	Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped	32.299 [5]
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Operation	Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated  Grouped Grouped	
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Enforcement-Info 2201 Subsession-Inforcement-Info	Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated  Grouped Grouped Unsigned32	
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Operation	Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated  Grouped Grouped Unsigned32 Enumerated	
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Inforcement-Info 2202 Subsession-Operation 2204 Multiple-BBERF-Action	Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated  Grouped Grouped Unsigned32 Enumerated	
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Id 2203 Subsession-Operation 2204 Multiple-BBERF-Action Note: The AVP codes from 2205 to 2299 are reserved for TS 29.215	Enumerated Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated  Grouped Grouped Unsigned32 Enumerated	
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Operation 2204 Multiple-BBERF-Action Note: The AVP codes from 2205 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction	Enumerated Unsigned32 UTF8String  Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated  Grouped Grouped Grouped Unsigned32	29.215 [22]
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Operation 2202 Subsession-Operation 2204 Multiple-BBERF-Action Note: The AVP codes from 2205 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction	Enumerated Unsigned32 UTF8String  Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated  Grouped Grouped Grouped Unsigned32 Enumerated	
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Enforcement-Info 2201 Subsession-Id 2203 Subsession-Operation 2204 Multiple-BBERF-Action Note: The AVP codes from 2205 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag	Enumerated Unsigned32 UTF8String  Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsignedd32 Unsignedd32 Unsignedd UTF8String UTF8String Enumerated  Grouped Unsigned32 Enumerated Unsigned32 Unsigned32 Enumerated Enumerated Enumerated Enumerated	29.215 [22]
2102 Application-Service-Type 2103 Application-Session-ID 2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info 2201 Subsession-Operation 2202 Subsession-Operation 2204 Multiple-BBERF-Action Note: The AVP codes from 2205 to 2299 are reserved for TS 29.215 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction	Enumerated Unsigned32 UTF8String  Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsignedd32 Unsignedd32 Unsignedd UTF8String UTF8String Enumerated  Grouped Grouped Unsigned32 Enumerated Unsigned32	29.215 [22]

_			
	Tariff-XML	UTF8String	
	MBMS GW-Address	Address	
	IMSI-Unauthenticated-Flag	Enumerated	
	Account-Expiration	Time	
	AoC-Format	Enumerated	
	AoC-Service	Enumerated	
	AoC-Service-Obligatory-Type	Grouped	
	AoC-Service-Type	Enumerated	
	AoC-Subscription-Information	Grouped	
	Preferred-AoC-Currency	Unsigned32	
	Reserved	-	
	CSG-Access-Mode	Enumerated	
	CSG-Membership-Indication	Enumerated	
	User-CSG-Information	Grouped	
	Outgoing-Session-Id	UTF8String	
	Initial-IMS-Charging-Identifier	UTF8String	
	IMS-Emergency-Indicator	Enumerated	
	The AVP codes from 2323 to 2399 are reserved for TS 32.299		
2400		OctetString	
	Serving-Node	Grouped	
	MME-Name	DiameterIdentity	
	MSC-Number	OctetString	
	LCS-Capabilities-Sets	Unsigned32	29.173 [25]
	GMLC-Address	Address	
2406	Additional-Serving-Node	Grouped	
	PPR-Address	Address	
	MME-Realm	DiameterIdentity	
	The AVP codes from 2409 to 2499 are reserved for TS 29.173		
	Location-Type	Enumerated	
	LCS-EPS-Client-Name	Grouped	
	LCS-Requestor-Name	Grouped	
	LCS-Priority	Unsigned32	
	LCS-QoS	Grouped	
	Horizontal-Accuracy	Unsigned32	
	Vertical-Accuracy	Unsigned32	
	Vertical-Requested	Enumerated	
	Velocity-Requested	Enumerated	
	Response-Time	Enumerated	
	Supported-GAD-Shapes	Unsigned32	
	LCS-Codeword	UTF8String	29.172 [24]
	LCS-Privacy-Check	Enumerated	
	Accuracy-Fulfilment-Indicator	Enumerated	
	Age-Of-Location-Estimate	Unsigned32	
	Velocity-Estimate	OctetString	
	EUTRAN-Positioning-Data	OctetString	
2517		OctetString	
	Location-Event	Enumerated	
	Pseudonym-Indicator	Enumerated	
	LCS-Service-Type-ID	Unsigned32	
	LCS-Privacy-Check-Non-Session	Grouped	
	LCS-Privacy-Check-Session	Grouped	
	LCS-QoS-Class	Enumerated	
	The AVP codes from 2524 to 2599 are reserved for TS 29.172		
	reserved	- LITEOO:-:	
	IMS-Application-Reference-Identifier	UTF8String	
	Low-Priority-Indicator	Enumerated	32.299 [5]
	IP-Realm-Default-Indicator	Enumerated	F-3
	Local-GW-Inserted-Indicator	Enumerated	
	Transcoder-Inserted-Indicator	Enumerated	
	The AVP codes from 2606 to 2699 are reserved for TS 32.299		
	Not allocated	-	
2/01	Not allocated	-	00 000 171
0700	NI=4 = II = = 4 = -I		
	Not allocated	-	32.299 [5]
2703	Not allocated Not allocated Not allocated	-	32.299 [5]

0705 Not all a stand			1
2705 Not allocated		<u>-</u>	
2706 Not allocated 2707 Not allocated		-	-
2707 Not allocated 2708 From-Address		- UTF8String	
2709 Access-Transfer-Information	Access-Transfer-Type	Grouped	
2710 Access-Transfer-Type	TACCESS-TTAIISIET-Type	Enumerated	
	o 2707 and from 2711 to 2799 are res		
2800 Reserved	0 27 07 dila nom 27 11 to 27 00 dio 100	-	
2801 ADC-Revalidation-Time		Time	29.212 [19]
2802 TDF-Application-Instance-Id	dentifier	OctetString	
	o 2899 are reserved for TS 29.212		•
2900 reserved		-	
2901 Policy-Counter-Identifier		Grouped	
2902 Policy-Counter-Status		UTF8String	29.219 [26]
2903 Policy-Counter-Status-Repo	ort	Grouped	
2904 SL-Request-Type		Enumerated	
	o 2999 are reserved for TS 29.219		_
3000 reserved		-	
3001 Device-Action		Grouped	-
3002 Device-Notification		Grouped	4
3003 Trigger-Data		Grouped	-
3004 Payload		OctetString	20, 200, [0.7]
3005 Action-Type		Enumerated	29.368 [27]
3006 Priority-Indication 3007 Reference-Number		Enumerated	-
3007 Reference-Number 3008 Request-Status		Unsigned32 Enumerated	1
3009 Delivery-Outcome		Enumerated	-
3010 Application-Port-Identifier		Unsigned32	-
Note: The AVP codes from 3011to	3099 are reserved for TS 29 368	Unsigned32	1
3100 IP-SM-GW-Number	7 3033 are reserved for 18 23.300	OctetString	
3101 IP-SM-GW-Name		Diameter Identity	
3102 User-Identifier		Grouped	1
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	
	o 3199 are reserved for TS 29.336		1
3200 SM-Delivery-Outcome-T4		Enumerated	29.337 [29]
3201 Absent-Subscriber-Diagnos		Enumerated	
	o 3299 are reserved for TS 29.337	0-4-404	1
3300 SC-Address		OctetString	4
3301 SM-RP-UI		OctetString	4
3302 TFR-Flags		Unsigned32	4
3303 SM-Delivery- Failure-Cause 3304 SM-Enumerated-Delivery-F		Grouped Enumerated	-
	allule-Cause	OctetString	1
3305 SM-Diagnostic-Info 3306 SM-Delivery-Timer		Unsigned32	1
3307 SM-Delivery-Start-Time		Time	1
3308 SM-RP-MTI		Enumerated	1
3309 SM-RP-SMEA		OctetString	1
3310 SRR-Flags		Unsigned32	29.338 [30]
3311 SM-Delivery-Not-Intended		Enumerated	1
3312 MWD-Status		Unsigned32	
3313 MME-Absent-User-Subscrib	per-Diagnostic-SM	Enumerated	
3314 MSC-Absent-User-Subscrib		Enumerated	1
3315 SGSN-Absent-User-Subscr		Enumerated	1
3316 SM-Delivery-Outcome		Grouped	1
3317 MME-SM-Delivery-Outcome	Э	Grouped	1
3318 MSC-SM-Delivery-Outcome		Grouped	
3319 SGSN-SM-Delivery-Outcom		Grouped	

3320	IP-SM-GW-SM-Delivery-Outcome	Grouped	
3321	SM-Delivery-Cause	Enumerated	
3322	Absent-User-Subscriber-Diagnostic-SM	OctetString	
Note:	The AVP codes from 3323 to 3399 are reserved for TS 29.338		

# 8 Experimental result codes

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

#### 8.1 3GPP specific result codes

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

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

#### 8.1.1 Informational

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

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

#### 8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

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

#### 8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS					
4100	DIAMETER USER DATA NOT AVAILABLE	29.329 [4]					
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS	20.020 [1]					
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.						
	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]					
Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061.						
4141	DIAMETER_PCC_BEARER_EVENT	29.212 [19]					
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.						
	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	29.272 [21]					
	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.						
4201	DIAMETER_ERROR_ABSENT_USER	29.173 [25]					
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.						
4221	DIAMETER_ERROR_UNREACHABLE_USER						
4222	DIAMETER_ERROR_SUSPENDED_USER						
4223	DIAMETER_ERROR_DETACHED_USER	29.172 [24]					
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]					
4225	DIAMETER_ERROR_POSITIONING_FAILED						
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT						
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.						
4241	DIAMETER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	29.219 [26]					
Note: The Experimental Result Codes from 4242 to 4260 are reserved for the TS 29.219.							

#### 8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	29.229 [2]
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	
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						
Note: The Expe	rimental Result Codes from 5453 to 5469 are reserved for the TS	S 29.273.					
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 Expe	Note: The Experimental Result Codes from 5559 to 5569 are reserved for the TS 29.338.						
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]					
Note: The Expe	rimental Result Codes from 5571 to 5589 are reserved for the TS	S 29.219.					

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

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

### A.1 Application identifiers

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

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

#### A.2 Command codes

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

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

#### A.3 AVP codes

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

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

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

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

#### A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

# Annex B (informative): Change history

	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			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	010	2	Documenting the Reuse of the 3GPP specific application identifier	6.1.0	6.2.0
0004.40	ON1//00	ND 040570	044		of Ro for Re on the Charging Interfaces	0.4.0	0.0.0
2004-12 2004-12	CN#26	NP-040579 NP-040579			Gq interface allocations	6.1.0	6.2.0
	CN#26			4	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	1	
		NP-050039 NP-050039			Allocations for Gmb interface Allocations for MMS, MM10 Interface	1	
2005.06	CT#20					620	6.4.0
2005-06	CT#28	CP-050088 CP-050196		1	Gx interface allocation correction  Addition of Maximum-Number-Accesses AVP	6.3.0	6.4.0
2005.00	CT#20			1		6.4.0	C E O
2005-09	CT#29	CP-050440 CP-050310			Private identities on the Cx	6.4.0	6.5.0
	}			<u> </u>	Addition of Pr reference point to TS 29.230	1	
		CP-050310 CP-050310			Error code cleanup Addition of Rx ref. point and renaming of Experimental Result	1	
		CP-050310	0056		Codes		
2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-09	CT#29	CP-050624			Addition of GBA-Type AVP	7.0.0	7.1.0
2003-12	01#30	CP-050612			Additional Gmb AVP Allocation	7.0.0	7.1.0
		CP-050612			Reservation of AVP codes for 32.299	1	
	ŀ	CP-050625			Management of Sh subscriptions	i	
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
2000 00	01//01	CP-060084			User-Data in the response to Sh-Subs-Notif	1	7.2.0
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure	i	
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		
	Ì	CP-060417			Definition of specific Diameter codes for DSAI	i	
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
		CP-060562	0086		Addition of Diameter Error Code for Emergency Purposes	Ī	
	Ì	CP-060555	0087		Allocation of new AVP codes for Gmb	Ī	
	Ì	CP-060555	0089		AVP code allocations for Rf and Ro interfaces	Ī	
	Ì	CP-060566	0091		Allocation of Success Result Code Range for Gi Interface	Ī	
2007-03	CT#35	CP-070020	0093		C3 requested addition of new AVP code values to 3GPP TS 29.230	7.5.0	7.6.0
		CP-070020	0093		Allocation of new AVP code for DSAI-Tag AVP	Ī	
	Ì	CP-070020	0093		Allocation of Experimental-Result-Code AVP for Gi Interface	Ī	
2007-06	CT#36	CP-070318	0096		Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312	0098		Experimental-Result-Codes for Gmb interface		
	Ì	CP-070312	0100		Correction of Diameter AVP code allocation	Ī	
2007-09	CT#37	CP-070527	0102		Application ID for Gx protocol	7.7.0	7.8.0
2007-12	CT#38	CP-070743	0104		AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
			0105		Allocation of 3GPP specific AVP codes and Experimental Result		
					Codes for Gx protocol		
2007-12	CT#38	CP-070755	0101	4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
			0103		AVP code reservation for 32.299 in Rel-8		
2008-03	CT#39	CP-080015			Correction of reference to TS 29.140	8.0.0	8.1.0
		CP-080019			AVP code reservation for TS 32.299 in Rel-8	]	
	[	CP-080019			Wildcarded Public User Identities	]	
		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	1	
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		Ė	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	0.2.0	3.0.0
2008-09	CT#41	CP-080460			STaMIP Application Id	1	
	CT#41	CP-080463		i -	Cx Impacts of IMS Restoration Procedures (New AVP Codes	i	
	1		J J	<u> </u>	Territoria de line restaurante respondino (rion rive souco	1	1

	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.
2010 00   01#11		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	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-100846	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#49  CT#50	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#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-100683 CP-100688 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 0215 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 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#49  CT#50	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#49  CT#50	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-110088 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#49  CT#50	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 0186 0190 0197 0196 0193 0198 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-110057 CP-110088 CP-110054 CP-110057 CP-110088 CP-110054 CP-110057 CP-110088	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#49  CT#50	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-110057 CP-110088 CP-110054 CP-110057 CP-110088 CP-110054 CP-110057 CP-110088	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

		CP-110555	0252		Failure code and AVP code alignment with 29.212		
		CP-110722			Priviledged sender		
2011-09	CT#53	CP-110584	0234	1	Add vSRVCC updates to the Diameter AVP code table	10.4.0	11.0.0
		CP-110579	0240		AVP code alignment with 32.299		
		CP-110555	0253		AVP code reservation for 29.212		
2011-12	CT#54	CP-110812	0258	1	SWx Restoration AVPs	11.0.0	11.1.0
		CP-110812	0259		Sy and Sd Application IDs		
		CP-110775	0262		New AVP codes for MBMS IP unicast encapsulation		
	ĺ	CP-110775	0265		New AVP codes for MBMS IP multicast encapsulation		
		CP-110786	0271	1	MME-Realm AVP code allocation		
	ĺ	CP-110811	0277		Equivalent PLMN CSG Subscription Request		
		CP-110781	0281	1	Restoration of Wildcarded-IMPU AVP		
2012-03	CT#55	CP-120025	0286	1	Codes Allocation for AVPs on Initial Attach	11.1.0	11.2.0
		CP-120038	0288		New AVP codes for Absolute Time of MBMS Data Transfer over		
		CP-120038	0201	1	SGmb Allocating Diameter AVP codes for TS 29.219 and TS 29.212		
2012-06	CT#56	CP-120240			Codes Allocation for AVPs on NPLI	11 2 0	11.3.0
2012-00	01#30	CP-120238			Adding new Diameter AVPs to Diameter table to support Trusted	11.2.0	11.5.0
		01 -120230	0234	'	WLAN Access feature		
	Ì	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		
	Ì	CP-120247			Network Name AVP codes		
	Ì	CP-120219			Duplicated AVP names		
2012-09	CT#57	CP-120481	0289	3	PS additional number allocation	11.3.0	11.4.0
		CP-120473			SMS in MME/SGSN		
	Ì	CP-120461			AAA Failure Recovery AVP codes		
	İ	CP-120474	0305	-	Transport Access Type AVP for BBAI		İ
	İ	CP-120480	0307	1	Local Time Zone		İ
		CP-120472			Allocating Application Identifier and command code for Tsp		
					interface		
		CP-120472	0309	-	Application Identifier, Command Codes and AVP range for S6m		
	}	CD 400007	0040	4	interface		ļ
	}	CP-120667			GMLC-Name		ļ
2042.42	OT#50		0313		Reference list correction to align with the corrected TS 29.212 title	44.40	44.5.0
2012-12	CT#58	CP-120731			T4 device triggering via IMS	11.4.0	11.5.0
		CP-120731			Codes and Identifier Allocation for T4 Specification  AVP Code Allocation for 29.336		
		CP-120731 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		
	İ	CP-120742			UE Time Zone AVP		
	İ	CP-120741			Use of Flag instead of Enumerated AVPs		
		CP-120741		-	Use of Flag instead of Enumerated AVPs		
		CP-120743	330	-	PSI direct routing with restoration procedures		
	İ	CP-120743		-	EPS LocationInformation Support		
2013-03	CT#59	CP-130026	0334	1	Diameter error code for TS 29.219	11.5.0	11.6.0
		CP-130026	0336	-	MDT parameters		
2013-06	CT#60	CP-130288	0361	1	Add new DER-S6b-flag AVP	11.6.0	11.7.0
		CP-130298			Failure Result Codes Allocation for TS 29.219	1	
	Ì	CP-130292			Diameter AVP codes for new TS 32.299 AVPs	1	
	Ì	CP-130279			Definition of SS Status for Call Barring		
		CP-130297	0346	1	Application Port Identifier		
		CP-130295	0343	-	Restoration Priority during SGW and PGW restoration procedures		
	CP-130374		_	MTRR on Sh		1	

# History

Document history						
V11.4.0	October 2012	Publication				
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