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Contents

Intell	ectual Property Rights	2
Forev	vord	2
Forev	word	4
1	Scope	
2	References	
3 3.1 3.2	Definitions and abbreviations Definitions	6
4 4.1	Application identifiers	
5 5.1	Command codes	
6 6.1	Vendor identifier	
7 7.1	Attribute-Value-Pair codes	
8 8.1 8.1.1 8.1.2 8.1.3 8.1.4	Experimental result codes 3GPP specific result codes Informational Success. Transient Failures Permanent Failures	24 24 25
Anne	ex A (informative): Assignment of the Diameter codes and identifiers in 3GPP	28
A.1	Application identifiers	28
A.2	Command codes	28
A.3	AVP codes	28
A.4	Result codes	28
Anne	ex B (informative): Change history	30
IIiata		22

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

[16]

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

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

Diameter protocol; Stage 3".

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

revease as n	ne present document.
[1]	3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and message contents".
[2]	3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter protocol; Protocol details".
[3]	3GPP TS 29.328: "IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents".
[4]	3GPP TS 29.329: "Sh Interface based on the Diameter protocol; Protocol details".
[5]	3GPP TS 32.299: "Telecommunication management; Charging management; Diameter charging applications".
[6]	3GPP TS 29.234: "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: http://www.iana.org/assignments/enterprise-numbers
[12]	IANA"s AAA parameters register: ftp://ftp.iana.org/assignments/aaa-parameters/
[13]	3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".
[14]	3GPP TS 32.296: "Telecommunication management; Charging management; Online Charging System (OCS): Applications and interfaces".
[15]	3GPP TS 29.210: "Charging rule provisioning over Gx interface".
F1.63	

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

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

3 Definitions and abbreviations

3.1 Definitions

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

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

3.2 Abbreviations

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

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

4 Application identifiers

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

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

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

4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

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

5 Command codes

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

5.1 Command codes allocated for 3GPP

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

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

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

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
8388620	Provide-Location-Request/Answer	PLR/PLA	20 172 [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	
8388656	Trigger-Establishment-Request/Answer	TER/TEA	29.215 [30]

6 Vendor identifier

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

6.1 3GPP"s vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

102 3GPP-WLAN-QoS-Filter-Support OctetString Note: The AVP codes from 1 to 255 are reserved for backwards compatibility with 3GPP RADIUS Vendor Specific Attributes (See TS 29.061 [13] and TS 29.234 [6]) Note: The AVP codes from 256 to 299 are reserved for future use. 300 Authentication-Method Enumerated 301 Authentication-Information-SIM OctetString 302 Authorization -Information-SIM OctetString	234 [6] ecific
102 3GPP-WLAN-QoS-Filter-Support OctetString Note: The AVP codes from 1 to 255 are reserved for backwards compatibility with 3GPP RADIUS Vendor Specific Attributes (See TS 29.061 [13] and TS 29.234 [6]) Note: The AVP codes from 256 to 299 are reserved for future use. 300 Authentication-Method Enumerated 301 Authentication-Information-SIM OctetString 302 Authorization -Information-SIM OctetString	
102 3GPP-WLAN-QoS-Filter-Support OctetString Note: The AVP codes from 1 to 255 are reserved for backwards compatibility with 3GPP RADIUS Vendor Specific Attributes (See TS 29.061 [13] and TS 29.234 [6]) Note: The AVP codes from 256 to 299 are reserved for future use. 300 Authentication-Method Enumerated 301 Authentication-Information-SIM OctetString 302 Authorization -Information-SIM OctetString	
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Attributes (See TS 29.061 [13] and TS 29.234 [6]) Note: The AVP codes from 256 to 299 are reserved for future use. 300 Authentication-Method Enumerated 301 Authentication-Information-SIM OctetString 302 Authorization -Information-SIM OctetString	
Note: The AVP codes from 256 to 299 are reserved for future use. 300 Authentication-Method Enumerated 301 Authentication-Information-SIM OctetString 302 Authorization -Information-SIM OctetString	
300 Authentication-Method Enumerated 301 Authentication-Information-SIM OctetString 302 Authorization -Information-SIM OctetString	
301 Authentication-Information-SIM OctetString 302 Authorization -Information-SIM OctetString	
302 Authorization -Information-SIM OctetString	
303 WLAN-User-Data Grouped	
304 Charging-Data Grouped	
305 WLAN-Access Enumerated	
306 WLAN- 3GPP-IP-Access Enumerated	
307 APN-Authorized Grouped	
308 APN-Id	
309 APN-Barring-Type Enumerated 29.	234 [6]
310 WLAN-Direct-IP-Access Enumerated	
311 Session-Request-Type Enumerated	
312 Routing-Policy IPFilterRule	
313 Max-Requested-Bandwidth OctetString	
314 Charging-Characteristics Integer	
315 Charging-Nodes Grouped	
316 Primary-OCS-Charging-Function-Name DiameterIdentity	
317 Secondary-OCS-Charging-Function-Name DiameterIdentity	
318 3GPP-AAA-Server-Name DiameterIdentity	
319 Maximum-Number-Accesses Unsigned32	
Note: The AVP codes from 320 to 399 are reserved for TS 29.234	
400 GBA-UserSecSettings OctetString	
401 Transaction-Identifier OctetString	
402 NAF-Hostname OctetString	
403 GAA-Service-Identifier OctetString	
404 Key-ExpiryTime Time	
405 ME-Key-Material OctetString	
406 UICC-Key-Material OctetString	
407 GBA_U-Awareness-Indicator Enumerated 408 BootstrapInfoCreationTime Time	
409 GUSS-Timestamp Time	
	109 [7]
411 UE-Id OctetString	100 [7]
412 UE-Id-Type Enumerated	
413 UICC-App-Label OctetString	
414 UICC-ME Enumerated	
415 Requested-Key-Lifetime Time	
416 Private-Identity-Request Enumerated	
417 GBA-Push-Info OctetString	
418 NAF-SA-Identifier OctetString	
419 Security-Feature-Request OctetString	
420 Security-Feature-Response OctetString	
500 Abort-Cause Enumerated	
500 Abort-Cause Enumerated 501 Access-Network-Charging-Address Address	
502 Access-Network-Charging-Identifier Grouped	200 [0]
	209 [8],
	11 [17] ,
	214 [18]
506 Authorization-Token OctetString	
507 Flow-Description IPFilterRule	
508 Flow-Grouping Grouped	

	Flow-Number	Unsigned32	
	Flows	Grouped	
	Flow-Status	Enumerated	
	Flow-Usage	Enumerated	
	Specific-Action	Enumerated	
	Max-Requested-Bandwidth	Unsigned32	
	Max-Requested-Bandwidth-DL	Unsigned32	
	Max-Requested-Bandwidth-UL Media-Component-Description	Unsigned32	
	Media-Component-Description Media-Component-Number	Grouped Unsigned32	
	Media-Sub-Component AVP	Grouped	
	Media-Type	Enumerated	
	RR-Bandwidth	Unsigned32	
	RS-Bandwidth	Unsigned32	
	SIP-Forking-Indication	Enumerated	
	Codec-Data	OctetString	
	Service-URN	OctetString	
	Acceptable-Service-Info	Grouped	
	Service-Info-Status	Enumerated	
	MPS-Identifier	OctetString	
	AF-Signalling-Protocol	Enumerated	
	Sponsored-Connectivity-Data	Grouped	
531	Sponsor-Identity Sponsor-Identity	OctetString	
	Application-Service-Provider-Identity	OctetString	
	The AVP codes from 533 to 599 are reserved for TS 29.209, TS 29.21		
	Visited-Network-Identifier	OctetString	
	Public-Identity	UTF8String	
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	
	Mandatory-Capability	Unsigned32	
	Optional-Capability	Unsigned32	
	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	
	SIP-Authorization SIP-Authentication-Context	OctetString	
	SIP-Auth-Data-Item	OctetString Grouped	
	SIP-Item-Number	Unsigned32	
	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
_	Reason-Info	UTF8String	
	Charging-Information	Grouped	
	Primary-Event-Charging-Function-Name	DiameterURI	00 000 101
	Secondary-Event-Charging-Function-Name	DiameterURI	29.229 [2]
	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
	User-Authorization-Type	Enumerated	
	User-Data-Already-Available	Enumerated	
	Confidentiality-Key	OctetString	
626	Integrity-Key	OctetString	
	User-Data-Request-Type	Enumerated	
	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
	Supported-Applications	Grouped	
	Associated-Identities	Grouped	
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	
	Loose-Route-Indication	Enumerated	
039	SCSCF-Restoration-Info	Grouped	

	Path	OctetString	
	Contact	OctetString	
	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	
	Record-Route	OctetString	
647	Associated-Registered-Identities	Grouped	
648	Multiple-Registration-Indication	Enumerated	
649	Restoration-Info	Grouped	
650	Session-Priority	Enumerated	
651	Identity-with-Emergency-Registration	Grouped	
652	Priviledged-Sender-Indication	Enumerated	
653	LIA-Flags	Unsigned32	
Note:	The AVP codes from 654 to 699 are reserved for TS 29.229.	<u>-</u>	
700	User-Identity User-Identity	Grouped	
	MSISDN	OctetString	
	User-Data	OctetString	
	Data-Reference	Enumerated	
	Service-Indication	OctetString	
	Subs-Req-Type	Enumerated	
	Requested-Domain	Enumerated	
	Current-Location	Enumerated	
	Identity-Set	Enumerated	
	Expiry-Time	Time	
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	29.329 [4]
	One-Time-Notification	Enumerated	20.020 [4]
	Requested-Nodes	Unsigned32	
	Serving-Node-Indication	Enumerated	
	Repository-Data-ID	Grouped	
	Sequence-Number	Unsigned32	
	Pre-paging-Supported	Enumerated	
	Local-Time-Zone-Indication	Enumerated	
	UDR-Flags	Unsigned32	
	Call-Reference-Info		
	Call-Reference-Number	Grouped OctetString	
	AS-Number		
	The AVP codes from 723 to 799 are reserved for TS 29.329.	OctetString	
	The AVP codes from 800 to 822 are reserved for TS 32.329.		
	Event-Type	Craunad	
	SIP-Method	Grouped UTF8String	
		<u> </u>	
	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	00 000 1-1
	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	
846	CG-Address	Address	
	GGSN-Address	Address	

	15 : 15 : 11		
	erved-Party-IP-Address	Address	
	uthorized-QoS	UTF8String	
850 A	pplication-Server-Information	Grouped	
851 Ti	runk-Group-Id	Grouped	
852 In	coming-Trunk-Group-Id	UTF8String	
	outgoing-Trunk-Group-Id	UTF8String	
	earer-Service	OctetString	
	ervice-Id	UTF8String	
	ssociated-URI	UTF8String	
	harged-Party	UTF8String	
858 P	oC-Controlling-Address	UTF8String	
859 P	oC-Group-Name	UTF8String	
860 C		Grouped	
	ause-Code	Integer32	
	ode-Functionality	Enumerated	
	ervice-Specific-Data	UTF8String	
	riginator	Enumerated	
865 P	S-Furnish-Charging-Information	Grouped	
866 P	S-Free-Format-Data	OctetString	
	S-Append-Free-Format-Data	Enumerated	
	ime-Quota-Threshold	Unsigned32	
	olume-Quota-Threshold	Unsigned32	
	rigger-Type	Enumerated	
	uota-Holding-Time	Unsigned32	
	eporting-Reason	Enumerated	
873 S	ervice-Information	Grouped	
	S-Information	Grouped	
	/LAN-Information	Grouped	
	/S-Information	Grouped	
	IMS-Information	Grouped	
	CS-Information CS-Information	Grouped	
879 P	oC-Information	Grouped	
880 M	IBMS-Information	Grouped	
	uota-Consumption-Time	Unsigned32	
	ledia-Initiator-Flag	Enumerated	
	oC-Server-Role		
		Enumerated	
	oC-Session-Type	Enumerated	
	umber-Of-Participants	Unsigned32	
886 O	riginator-Address	Grouped	
887 P	articipants-Involved	UTF8String	
888 E		Unsigned32	
	lessage-Body	Grouped	
	/AG-Address	Address	
	/AG-PLMN-Id	OctetString	
	/LAN-Radio-Container	Grouped	
	/LAN-Technology	Unsigned32	
894 W	/LAN-UE-Local-IPAddress	Address	
	DG-Address	Address	
	DG-Charging-Id	Unsigned32	
	ddress-Data	UTF8String	
	ddress-Domain	Grouped	
899 A	ddress-Type	Enumerated	
900 TI		OctectString	
901 R	equired-MBMS-Bearer-Capabilities	UTF8String	
	IBMS-StartStop-Indication	Enumerated	
	IBMS-Service-Area	OctectString	
	IBMS-Session-Duration	Unsigned32	
	Iternative-APN	UTF8String	29.061 [13]
	IBMS-Service-Type	Enumerated	[. 0]
	IBMS-2G-3G-Indicator	Enumerated	
908 M	IBMS-Session-Identity	OctetString	
909 R		UTF8String	
	dditional-MBMS-Trace-Info	OctetString	
	admonar MDMO 11000 1110		
Q11 N/	IBMS-Time-To-Data-Transfer	Unsigned32	

912 MBMS-Session-Identity-Repetition-Number	Unsigned32	
913 MBMS-Required-QoS	UTF8String	
914 MBMS-Counting-Information	Enumerated	
915 MBMS-User-Data-Mode-Indication	Enumerated	
916 MBMS-GGSN-Address	UTF8String	
917 MBMS-GGSN-IPv6-Address	UTF8String	
918 MBMS-BMSC-SSM-IP-Address	UTF8String	
919 MBMS-BMSC-SSM-IPv6-Address	UTF8String	
920 MBMS-Flow-Identifier	OctetString	
921 CN-IP-Multicast-Distribution	Enumerated	
922 MBMS-HC-Indicator	Enumerated	
923 MBMS-Access-Indicator	Enumerated	
924 MBMS-GW-SSM-IP-Address	OctetString	
925 MBMS-GW-SSM-IPv6-Address	OctetString	
926 MBMS-BMSC-SSM-UDP-Port	OctetString	
927 MBMS-GW-UDP-Port	OctetString	
928 MBMS-GW-UDP-Port-Indicator	Enumerated	
929 MBMS-Data-Transfer-Start	Unsigned64	
930 MBMS-Data-Transfer-Stop	Unsigned64	
Note: The AVP codes from 929 to 999 are reserved for TS 29.061	25.85	
1000 Bearer-Usage	Enumerated	
1001 Charging-Rule-Install	Grouped	
1002 Charging-Rule-Remove	Grouped	
1003 Charging-Rule-Definition	Grouped	
1004 Charging-Rule-Base-Name	UTF8String	
1005 Charging-Rule-Name	OctetString	
1006 Event-Trigger	Enumerated	
1007 Metering-Method	Enumerated	
1007 Metering-Wetriod	Enumerated	
1009 Online	Enumerated	
1010 Precedence	Unsigned32	
1010 Precedence 1011 Reporting-Level	Enumerated	
1011 Reporting-Level	IPFilterRule	
1012 TFT-Filler 1013 TFT-Packet-Filter-Information		
	Grouped	
1014 ToS-Traffic-Class	OctetString	
1016 QoS-Information	Grouped	
1018 Charging-Rule-Report	Grouped	
1019 PCC-Rule-Status	Enumerated	
1020 Bearer-Identifier	OctetString	
1021 Bearer-Operation	Enumerated	
1022 Access-Network-Charging-Identifier-Gx	Grouped	
1023 Bearer-Control-Mode	Enumerated	
1024 Network-Request-Support	Enumerated	29.212 [19]
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-UL	Unsigned32	
1042 Revalidation-Time	Time	
1043 Rule-Activation-Time	Time	
1044 Rule-DeActivation-Time	Time	
1045 Session-Release-Cause	Enumerated	
1046 Priority-Level	Unsigned32	
1.0.0 j. Horny Euro	51.01g110402	

	Pre-emption-Capability	Enumerated	
	Pre-emption-Vulnerability	Enumerated	
	Default-EPS-Bearer-QoS	Grouped	
	AN-GW-Address	Address	
	QoS-Rule-Install	Grouped	
	QoS-Rule-Remove	Grouped	
	QoS-Rule-Definition	Grouped	
	QoS-Rule-Name	OctetString	
	QoS-Rule-Report	Grouped	
	Security-Parameter-Index	OctetString	
	Flow-Label	OctetString	
	Flow-Information	Grouped	
	Packet-Filter-Content	IPFilterRule	
	Packet-Filter-Identifier	OctetString	
	Packet-Filter-Information	Grouped	
	Packet-Filter-Operation Resource-Allocation-Notification	Enumerated	
		Enumerated Enumerated	
	Session-Linking-Indicator		
	PDN-Connection-ID Monitoring-Key	OctetString OctetString	
	Usage-Monitoring-Information	Grouped	
	Usage-Monitoring-Information Usage-Monitoring-Level	Enumerated	
	Usage-Monitoring-Level Usage-Monitoring-Report	Enumerated	
	Usage-Monitoring-Report Usage-Monitoring-Support	Enumerated	
	CSG-Information-Reporting	Enumerated	
	Packet-Filter-Usage	Enumerated	
	Charging-Correlation-Indicator	Enumerated	
	QoS-Rule-Base-Name	UTF8String	
	Routing-Rule-Remove	Grouped	
	Routing-Rule-Definition	Grouped	
	Routing-Rule-Identifier	OctetString	
	Routing-Filter	Grouped	
	Routing-IP-Address	Address	
	Flow-Direction	Enumerated	
	Routing-Rule-Install	Grouped	
	Redirect-Information	Grouped	
1086	Redirect- Support	Enumerated	
	TDF-Information	Grouped	
	TDF-Application-Identifier	OctetString	
	TDF-Destination-Host	DiameterIdentity	
1090	TDF-Destination-Realm	DiameterIdentity	
	TDF-IP-address	Address	
1092	ADC-Rule-Install	Grouped	
1093	ADC-Rule-Remove	Grouped	
1094	ADC-Rule-Definition	Grouped	
	ADC-Rule-Base-Name	UTF8String	
	ADC-Rule-Name	OctetString	
	ADC-Rule-Report	Grouped	
	Application-Detection-Information	Grouped	
	PS-to-CS-Session-Continuity	Enumerated	
	The AVP codes from 1082 to 1084 are reserved for TS 29.212		
	Served-User-Identity	Groupe	
	VASP-ID	UTF8Str	
	VAS-ID	UTF8String	
	Trigger-Event	Enumerated	
	Sender-Address	UTF8String	
	Initial-Recipient-Address	Grouped	
	Result-Recipient-Address	Grouped	29.140 [16]
	Sequence-Number	Unsigned32	[10]
	Recipient-Address	UTF8String	
	Routeing-Address	UTF8String	
	Originating-Interface	Enumerated	
11111	Delivery-Report	Enumerated	
		F	
1112	Read-Reply Sender-Visibility	Enumerated Enumerated	

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

1259 Participant-Access-Priority	Enumerated	
1260 Participant-Group	Grouped	
1261 PoC-Change-Conditions	Enumerated	
1262 PoC-Change-Time	Time	
1263 Access-Network-Information	OctetString	
1264 Trigger	Grouped	
1265 Base-Time-Interval	Unsigned32	
1266 Envelope	Grouped	
1267 Envelope-End-Time	Time	
1268 Envelope-Reporting	Enumerated	
1269 Envelope-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	211 county	
1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	
1403 Software-Version	UTF8String	
1404 QoS-Subscribed	UTF8String	
1405 ULR-Flags	Unsigned32	
1406 ULA-Flags	Unsigned32	
1407 Visited PLMN Id	OctetString	
1408 Requested-EUTRAN-Authentication-Info	Grouped	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped	
1410 Number-Of-Requested-Vectors	Unsigned32	
1411 Re-Synchronization-Info	OctetString	
1412 Immediate-Response-Preferred	Unsigned32	
1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	20 272 [24]
1417 Network-Access-Mode	Enumerated	29.272 [21]
1418 HPLMN-ODB	Enumerated	
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
1426 Access-Restriction-Data	UTF8String	
1427 APN-OI-Replacement	UTF8String	
1428 All-APN-Configurations-Included-Indicator	Enumerated	
1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile	Grouped	
1432 VPLMN-Dynamic-Address-Allowed	Enumerated	
1433 STN-SR	OctetString	
		

1434 Alert-Reason	Enumerated
1435 AMBR	Grouped
1436 CSG-Subscription-Data	Grouped
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	
1449 AOTN 1450 KASME	OctetString
	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	OctetString
1471 3GPP2-MEID	OctetString
1472 Specific-APN-Info	Grouped
1473 LCS-Info	Grouped
1474 GMLC-Number	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
	Grouped
1486 Teleservice-List	
1487 TS-Code	Enumerated
1488 Call-Barring-Info	Grouped
1489 SGSN-Number	OctetString
1490 IDR-Flags	Unsigned32
1491 ICS-Indicator	Enumerated
1492 IMS-Voice-Over-PS-Sessions-Supported	Enumerated
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated
1494 Last-UE-Activity-Time	Time
1495 EPS-User-State	Grouped
1496 EPS-Location-Information	Grouped
1497 MME-User-State	Grouped
1498 SGSN-User-State	Grouped

1500 Non-3GPP-User-Data	1499	User-State	Enumerated	
1501 Non-3GPP-IP-Access				
1502 Non-3GPP-IP-Access-APN				
1903 AN-Trusted				
1904 ANID				
1505 Tarace-Info				
19.06 MIP-FA-RK OcteString Unsigned32 19.08 PR-Flags Unsigned32 19.09 VLAN-Identifier Grouped 15.10 TWAN-Access-Inlo Grouped 15.11 Access-Authorization-Flags Unsigned32 15.12 TWAN-Detaill-AFN-Context-Id Unsigned32 15.13 Reserved -				
1907 MIP-FA-RK-SP				
1509 W.A.H. clearlier Grouped				
1509 W.A.N-Identifier Grouped				
1510 IWANI-Access-Info				
1511 Access-Authorization-Flags				
1512 TWAN-Default-APN-Context-Id				
1512 INVAN-Default-APN-Context-light 1513 Reserved				29.273 [20]
1514 Reserved			Unsigned32	
1515 Reserved			-	
1516 Full-Network-Name			-	
Short-Network-Name			<u> </u>	
1518 AAA-Failure-Indication				
1520 DER-Flags				
Insigned32				
1522 DR-S6b-Flags				
1523 DER-S6b-Flags				
Note: The AVP codes from 1524 to 1599 are reserved for TS 29.273				
1600 MME-Location-Information Grouped 1801 SGSN-Location-Information Grouped 1802 E-UTRAN-Cell-Global-Identity OctetString 1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Collogal-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString 1600 Geodetic-Information OctetString 1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 SIPTO-Permission Enumerated 1614 Error-Diagnostic Enumerated 1616 MPS-Priority Unsigned32 1617 VPLMN-LIPA-Allowed Enumerated 1618 LIPA-Permission Enumerated 1619 Subscribed-Periodic-RAU-TAU-Timer Unsigned32 1621 Ext-PDP-Type OctetString 1621 Ext-PDP-Address Address 1622 MDT-Configuration Grouped 1623 Job-Type Enumerated 1624 Area-Scope Grouped 1625 List-Of-Measurements Unsigned32 1626 Report-Amount Enumerated 1629 Event-ThresholdRSRP Unsigned32 1630 Event-ThresholdRSRP Unsigned32 1631 Logging-Interval Enumerated 1632 Logging-Interval Enumerated 1633 Relay-Node-Indicator Enumerated 1634 MDT-User-Consent Enumerated 1635 PUR-Flags Unsigned32 1636 Subscribed-VSRVCC Enumerated 1637 Enumerated Enumerated 1638 Subscribed-VSRVCC Enumerated 1639 Enumerated Enumerated 1630 Event-ThresholdRSRQ Unsigned32 1631 Logging-Interval Enumerated 1632 Enumerated Enumerated 1633 Event-ThresholdRSRQ Unsigned32 1634 Character Enumerated Enumerated 1635 PUR-Flags Unsigned32 1636 Subscribed-VSRVCC Enumerated 1637 Enumerated Enumerated Enumerated 1638 Enumerated Enum			Unsigned32	
SGSN-Location-Information				
1602 E-UTRAN-Cell-Global-Identity OctelString 1603 Tracking-Area-Identity OctelString 1604 Cell-Global-Identity OctelString 1605 Routing-Area-Identity OctelString 1606 Location-Area-Identity OctelString 1607 Service-Area-Identity OctelString 1608 Geographical-Information OctelString 1609 Geodetic-Information OctelString 1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 SIPTO-Permission Enumerated 1614 Erro-Diagnostic Enumerated 1615 UE-SRVCC-Capability Enumerated 1616 MPS-Priority Unsigned32 1617 VPLMN-LIPA-Allowed Enumerated 1618 LIPA-Permission Enumerated 1619 Subscribed-Periodic-RAU-TAU-Timer Unsigned32 1620 Ext-PDP-Type OctelString 1621 Ext-PDP-Address Address 1622 MDT-Configuration Grouped 1623 Job-Type Grouped 1624 Area-Scope Grouped 1625 List-Of-Measurements Unsigned32 1627 Report-Interval Enumerated 1628 Report-Interval Enumerated 1629 Event-ThresholdRSRP Unsigned32 1630 Event-ThresholdRSRQ Unsigned32 1631 Logging-Interval Enumerated 1632 Logging-Interval Enumerated 1633 Relay-Node-Indicator Enumerated 1634 MDT-User-Consent Enumerated 1635 PUR-Flags Unsigned32 1636 Subscribed-VSRVCC Enumerated 1637 Furnerated Enumerated 1638 PUR-Flags Unsigned32 1639 Enumerated Enumerated 1630 Enumerated Enumerated 1631 Enumerated Enumerated 1632 Enumerated Enumerated 1633 DUR-Flags Unsigned32 1634 Enumerated Enumerated 1635 PUR-Flags Unsigned32 1636 Enumerated Enumerated 1637 Enumerated Enumerated 1638 Enumerated Enumerated 1639 Enumerated Enumerated 1630 Enumerated Enumerated 1631 Enumerated Enumerated 1632 Enumerated Enumerated 1633 Enumerated Enumerated 1634 Enumerated Enumerated 1635 Enumerated Enumerated Enumerated 1636 Enumerated				
1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Location-Area-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Cographical-Information OctetString 1609 Geodetic-Information OctetString 1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 SiPTO-Permission Enumerated 1614 Error-Diagnostic Enumerated 1615 UE-SRVCC-Capability Unsigned32 1616 VE-MN-LIPA-Allowed Enumerated 1617 VPLM-LIPA-Allowed Enumerated 1618 LiPA-Permission Enumerated 1619 Subscribed-Periodic-RAU-TAU-Timer Unsigned32 1620 Ext-PDP-Type OctetString 1621 Ext-PDP-Address Address 1622 MDT-Configuration Grouped 1623 Job-Type Enumerated 1624 Area-Scope Grouped 1625 List-Of-Measurements Unsigned32 1626 Report-Interval Enumerated 1628 Report-Interval Enumerated 1629 Event-ThresholdRSRP Unsigned32 1620 Ext-PhresholdRSRP Unsigned32 1621 Cogging-Interval Enumerated 1622 Cevent-ThresholdRSRQ Unsigned32 1623 Logging-Interval Enumerated 1624 Area-Scope Grouped 1625 Logging-Interval Enumerated 1628 Cevent-ThresholdRSRQ Unsigned32 1629 Cevent-ThresholdRSRQ Unsigned32 1630 Event-ThresholdRSRQ Unsigned32 1631 Logging-Interval Enumerated 1632 Logging-Interval Enumerated 1633 Relay-Node-Indicator Enumerated 1634 MDT-User-Consent Enumerated 1635 PUR-Flags Unsigned32 1636 Subscribed-VSRVCC Enumerated 1637 Enumerated 1638 Subscribed-VSRVCC Enumerated 1639 Enumerated Enumerated 1630 Subscribed-VSRVCC Enumerated 1631 Enumerated Enumerated 1632 Enumerated Enumerated 1633 Cevent-Threshold Enumerated 1634 Enumerated Enumerated 1635 PUR-Flags Unsigned32 1636 Subscribed-VSRVCC Enumerated 1637 Enumerated Enumerated 1638				
Cell-Global-Identity				
Routing-Area-Identity				
1606 Location-Area-Identity OctetString				
1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString 1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 SIPTO-Permission Enumerated 1614 Error-Diagnostic Enumerated 1615 UE-SRVCC-Capability Enumerated 1616 MPS-Priority Unsigned32 1617 VPLMN-LIPA-Allowed Enumerated 1618 LIPA-Permission Enumerated 1619 Subscribed-Periodic-RAU-TAU-Timer Unsigned32 1619 Sut-PDP-Type OctetString 1620 Ext-PDP-Type OctetString 1621 Ext-PDP-Address Address 1622 MDT-Configuration Grouped 1623 MDT-Configuration Grouped 1624 Area-Scope Grouped 1625 List-Of-Measuremen				
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1638 U.R.Filags			
1640 UVA-Flags	1638 CLR-Flags	Unsigned32	
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1642 Time-Zone			
1643 AMSISON	1641 VPLMN-CSG-Subscription-Data		
1644 Reserved			
1645 MME-Number-for-MT-SMS	1643 A-MSISDN	OctetString	
1646 Reserved		-	
1647 Reserved	1645 MME-Number-for-MT-SMS	OctetString	
1648 SMS-Register-Request		-	
1649 Local+Time-Zone		-	
		Enumerated	
1661 GMLC-Info Grouped	1649 Local-Time-Zone	Grouped	
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DiameterIdentity		Grouped	
1655 Measurement-Period-LTE		DiameterIdentity	
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2020 Low-Balance-IndicationEnumerated2021 Remaining-BalanceGrouped2022 Refund-InformationOctetString2023 Carrier-Select-Routing-InformationUTF8String2024 Number-Portability-Routing-InformationUTF8String2025 PoC-Event-TypeEnumerated2026 Recipient-InfoGrouped2027 Originator-Received-AddressGrouped2028 Recipient-Received-AddressGrouped2029 SM-Service-TypeEnumerated2030 MMTel-InformationGrouped2031 MMTel-Sservice-TypeUnsigned322032 Service-ModeUnsigned322033 Subscriber-RoleEnumerated2034 Number-Of-DiversionsUnsigned32			J00 [0]
2021Remaining-BalanceGrouped2022Refund-InformationOctetString2023Carrier-Select-Routing-InformationUTF8String2024Number-Portability-Routing-InformationUTF8String2025PoC-Event-TypeEnumerated2026Recipient-InfoGrouped2027Originator-Received-AddressGrouped2028Recipient-Received-AddressGrouped2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031IMMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
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2023Carrier-Select-Routing-InformationUTF8String2024Number-Portability-Routing-InformationUTF8String2025PoC-Event-TypeEnumerated2026Recipient-InfoGrouped2027Originator-Received-AddressGrouped2028Recipient-Received-AddressGrouped2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031MMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2024Number-Portability-Routing-InformationUTF8String2025PoC-Event-TypeEnumerated2026Recipient-InfoGrouped2027Originator-Received-AddressGrouped2028Recipient-Received-AddressGrouped2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031MMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2025PoC-Event-TypeEnumerated2026Recipient-InfoGrouped2027Originator-Received-AddressGrouped2028Recipient-Received-AddressGrouped2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031IMMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2026Recipient-InfoGrouped2027Originator-Received-AddressGrouped2028Recipient-Received-AddressGrouped2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031IMMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2027 Originator-Received-AddressGrouped2028 Recipient-Received-AddressGrouped2029 SM-Service-TypeEnumerated2030 MMTel-InformationGrouped2031 MMTel-Sservice-TypeUnsigned322032 Service-ModeUnsigned322033 Subscriber-RoleEnumerated2034 Number-Of-DiversionsUnsigned32			
2028Recipient-Received-AddressGrouped2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031MMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2029SM-Service-TypeEnumerated2030MMTel-InformationGrouped2031MMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2030MMTel-InformationGrouped2031MMTel-Sservice-TypeUnsigned322032Service-ModeUnsigned322033Subscriber-RoleEnumerated2034Number-Of-DiversionsUnsigned32			
2031 MMTel-Sservice-TypeUnsigned322032 Service-ModeUnsigned322033 Subscriber-RoleEnumerated2034 Number-Of-DiversionsUnsigned32			
2032 Service-ModeUnsigned322033 Subscriber-RoleEnumerated2034 Number-Of-DiversionsUnsigned32			
2033 Subscriber-RoleEnumerated2034 Number-Of-DiversionsUnsigned32			
2034 Number-Of-Diversions Unsigned32			
2035 Associated-Party-Address UTF8String			
	2035 Associated-Party-Address	UTF8String	

2007 Change-Condition	2036	SDP-Type	Enumerated	
2038 Change-Time Time				
2039 Disapnostics				
2040 Service-Data-Container Grouped Time				
2041 Start-Time				
2042 Stop-Time				
2045 Time-Usage				
2046 Tarffic-Data-Volumes				
2047 Serving-Node-Type				
2048 Supplementary-Service Grouped				
2049 Participant-Action-Type Enumerated 2050 PDN-Comection-Charging-id Unsigned32 2051 Dynamic-Address-Flag Enumerated 2052 Accumulated-Cost Grouped 2053 AcC-Cost-Information Grouped 2053 AcC-Information Grouped 2054 AcC-Information Grouped 2055 AcReguest-Type Enumerated 2056 AcReguest-Type Grouped 2056 AcReguest-Type Grouped 2057 Next-Tariff Grouped 2058 Grouped 2058 Garles-Factor Grouped 2059 Scale-Factor Grouped 2060 Grait-Information Grouped 2061 Grait-Cost Grouped 2062 Informental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id Unsigned32 2065 Charging-Characteristic-Selection-Mode Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 ScW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated 2068 Dynamic-Address-Flag-Extension Enumerated 2069 Dynamic-Address-Flag-Extension Enumerated 2010 reserved - 2100 reserved - 2101 Application-Server-ID Unsigned32 2102 Application-Server-Type Enumerated 2103 Application-Server-Type Enumerated 2104 Delivery-Status UTF8String 2105 reserved - 2106 reserved - 2107 reserved - 2108 reserved - 2109 reserved - 2110 reserved - 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Unsigned32 2113 Total-Number-Of-Messages-Successfully-Exploded Unsigned32 2114 Total-Number-Of-Messages-Successfully-Sent Unsigned32 2115 Content-ID UTF8String 2117 Content-Provider-ID UTF8String 2118 Charge-Reason-Code Unsigned32 2119 Content-Provider-ID Unsigned32 2111 Number-Of-Messages-Successfully-Sent Unsigned32 2112 Content-Provider-ID Unsigned32 2113 Total-Number-Of-Messages-Successfully-Sent Unsigned32 2114 Total-Number-Of-Messages-Successfully-Sent Unsigned32 2115 Content-Provider-ID Unsigned32 2116 Charge-Reason-Code Enumerated 2202 Subsessi				
Description				
2051 Dynamic-Address-Flag				
2053 Accumulated-Cost Grouped 2053 AcC-Sost-Information Grouped 2054 AcC-Information Grouped 2055 AcC-Request-Type Enumerated 2056 Current-Tariff Grouped 2057 Next-Tariff Grouped 2058 Rate-Element Grouped 2059 Grouped 2059 Rate-Element Grouped 2059 Grouped 2050 Tariff-Information Grouped 2050 Grouped 2051 Grouped 2052 Cacat-Sequence-Number Grouped 2062 Incremental-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Graging-Characteristic-Selection-Mode Enumerated 2066 Graging-Characteristic-Selection-Mode Enumerated 2066 Graging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address Address 2068 Dynamic-Address-Flag-Extension Enumerated 2069 Tariff Tariff Tariff 2070 Reserved UTF8String 2071 Application-Server-ID UTF8String 2072 Application-Server-ID UTF8String 2073 Application-Server-Type Enumerated 2074 Application-Server-Type Enumerated 2075 Tariff Tariff 2076 Tariff Tariff Grouped 2077 Server Unsigned32 2078 Unsigned32 2079 Tariff Total-Number-Of-Messages-Successfully-Exploded Unsigned32 2071 Number-Of-Messages-Successfully-Exploded Unsigned32 2071 Total-Number-Of-Messages-Successfully-Sent Unsigned32 2071 Total-Number-Of-Messages-Successfully-Sent Unsigned32 2071 Total-Number-Of-Messages-Sent Unsigned32 2071 Total-Number-Of-Messages-Sent Unsigned32 2072 Subsession-Decision-Info Grouped 2073 Subsession-Decision-Info Grouped 2074 Subsession-Decision-Info Grouped 2075 Subsession-Decision-Info Enumerated 2086 Dametrided Unsigned32 2097 Carter-Address OctetString Enumerated 2007 Dametrided Dametrided Unsigned32 2007 Dametrided Dametrided Dametrided 2008 Dametrided Dametrided Dametrided 2009 Dametrided Dametrided Da				
2053 AOC-Cost-Information Grouped 2054 AOC-Information Grouped 2055 AOC-Request-Type Enumerated 2055 Current-Tariff Grouped 2055 Current-Tariff Grouped 2058 Rate-Element Grouped 2058 Scale-Factor Grouped 2059 Scale-Factor Grouped 2060 Dartif-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id Unsigned32 2065 Scale-Factor Grouped 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 ScW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated 2069 Charging-Characteristic-Selection-Mode Enumerated 2067 ScW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated 2069 Dynamic-Address-Flag-Extension Enumerated 2061 Application-Service-Type Enumerated 2010 Reserved -				
2054 AoC-Information Grouped				
2055 AoC-Request-Type				
2056 Current-Tariff				
2057 Next-Tariff				
2058 Rate-Element Grouped				
2059 Scale-Factor Grouped				
Description Grouped				
Unsigned32				
2065 GWV-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2075 GWV-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299 The AVP codes from 2069 to 2099 are reserved for TS 32.299 2100 reserved - 2101 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String 2105 reserved - 2106 reserved - 2107 reserved - 2108 reserved - 2109 reserved - 2110 liN-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Exploded Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 <t< td=""><td></td><td></td><td></td><td></td></t<>				
2066 Charging-Characteristic-Selection-Mode			- U	
2067 SGW-Address			Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299			Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299			Address	
2100 reserved	2068	Dynamic-Address-Flag-Extension	Enumerated	
2101 Application-Service-Type Enumerated	Note:	The AVP codes from 2069 to 2099 are reserved for TS 32.299		
2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String 2105 reserved -	2100	reserved	-	
2103 Application-Session-ID	2101	Application-Server-ID	UTF8String	
2104 Delivery-Status UTF8String 2105 reserved	2102	Application-Service-Type	Enumerated	
2104 Delivery-Status UTF8String 2105 reserved	2103	Application-Session-ID	Unsigned32	
2105 reserved				
2106 reserved			i i	
2107 reserved			-	
2108 reserved			-	
2109 reserved			-	
2110 IM-Information Grouped 2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String 2118 Charge-Reason-Code Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Operation Enumerated 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity 2208 DRA-Binding Enumerated Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215			-	32,299 [5]
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 2202 Subsession-Id 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address DiameterIdentity 2208 DRA-Binding Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215			Grouped	
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2113Total-Number-Of-Messages-ExplodedUnsigned322114Total-Number-Of-Messages-SentUnsigned322115DCD-InformationGrouped2116Content-IDUTF8String2117Content-provider-IDUTF8String2118Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.2992200Subsession-Decision-InfoGrouped2201Subsession-Enforcement-InfoGrouped2202Subsession-IdUnsigned322203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity2208DRA-BindingEnumeratedNote: The AVP codes from 2209 to 2299 are reserved for TS 29.215				
2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String 2118 Charge-Reason-Code Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity 2208 DRA-Binding Enumerated Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215				
2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String 2118 Charge-Reason-Code Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 Crouped 2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity 2208 DRA-Binding Enumerated Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215				
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-Id 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address 2208 DRA-Binding Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215			Ü	
2117Content-provider-IDUTF8String2118Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.2992200Subsession-Decision-InfoGrouped2201Subsession-Enforcement-InfoGrouped2202Subsession-IdUnsigned322203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity2208DRA-BindingEnumeratedNote: The AVP codes from 2209 to 2299 are reserved for TS 29.215				
2118 Charge-Reason-CodeEnumeratedNote: The AVP codes from 2119 to 2199 are reserved for TS 32.2992200 Subsession-Decision-InfoGrouped2201 Subsession-Enforcement-InfoGrouped2202 Subsession-IdUnsigned322203 Subsession-OperationEnumerated2204 Multiple-BBERF-ActionEnumerated2205 UE-Local-IPv6-PrefixOctetString2206 DRA-DeploymentEnumerated2207 PCRF-AddressDiameterIdentity2208 DRA-BindingEnumeratedNote: The AVP codes from 2209 to 2299 are reserved for TS 29.215			·	
Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299 2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Operation Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity 2208 DRA-Binding Enumerated Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215				
2200Subsession-Decision-InfoGrouped2201Subsession-Enforcement-InfoGrouped2202Subsession-IdUnsigned322203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity2208DRA-BindingEnumeratedNote: The AVP codes from 2209 to 2299 are reserved for TS 29.215			Enumerated	
2201Subsession-Enforcement-InfoGrouped2202Subsession-IdUnsigned322203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity2208DRA-BindingEnumeratedNote: The AVP codes from 2209 to 2299 are reserved for TS 29.215			Grouped	
2202Subsession-IdUnsigned322203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity2208DRA-BindingEnumeratedNote: The AVP codes from 2209 to 2299 are reserved for TS 29.215				
2203Subsession-OperationEnumerated2204Multiple-BBERF-ActionEnumerated2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity2208DRA-BindingEnumeratedNote: The AVP codes from 2209 to 2299 are reserved for TS 29.215				
2204Multiple-BBERF-ActionEnumerated2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity2208DRA-BindingEnumeratedNote: The AVP codes from 2209 to 2299 are reserved for TS 29.215				
2205UE-Local-IPv6-PrefixOctetString2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity2208DRA-BindingEnumeratedNote: The AVP codes from 2209 to 2299 are reserved for TS 29.215				20 245 [22]
2206DRA-DeploymentEnumerated2207PCRF-AddressDiameterIdentity2208DRA-BindingEnumeratedNote: The AVP codes from 2209 to 2299 are reserved for TS 29.215				29.215 [22]
2207 PCRF-AddressDiameterIdentity2208 DRA-BindingEnumeratedNote: The AVP codes from 2209 to 2299 are reserved for TS 29.215				
2208 DRA-Binding Enumerated Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215				
Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215				
			∟numerated	_
2300 reserved				00.055.77
	2300	reserved	-	32.299 [5]

2301 SIP-Request-Timestamp-Fraction	Unsigned32	
2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2302 Online-Charging-Flag	Enumerated	
2304 CUG-Information	OctetString	
2305 Real-Time-Tariff-Information	Grouped	
2306 Tariff-XML	UTF8String	
2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
2309 Account-Expiration	Time	
2310 AoC-Format		
2311 AoC-Service	Enumerated	
	Enumerated	
2312 AoC-Service-Obligatory-Type	Grouped Enumerated	
2313 AoC-Service-Type		
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved		
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator	Enumerated	
Note: The AVP codes from 2323 to 2399 are reserved for TS 32.299 2400 LMSI	Ootot String	
	OctetString Grouped	
2401 Serving-Node		
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	20 472 [25]
2404 LCS-Capabilities-Sets	Unsigned32	29.173 [25]
2405 GMLC-Address	Address	
2406 Additional-Serving-Node	Grouped	
2407 PPR-Address	Address	
2408 MME-Realm Note: The AVP codes from 2409 to 2499 are reserved for TS 29.173	DiameterIdentity	
	Enumerated	
2500 Location-Type 2501 LCS-EPS-Client-Name		
	Grouped	
2502 LCS-Requestor-Name	Grouped Unsigned32	
2503 LCS-Priority 2504 LCS-QoS	Grouped	
2504 LC3-Q03 2505 Horizontal-Accuracy	Unsigned32	
2506 Vertical-Accuracy	Unsigned32	
2507 Vertical-Requested	Enumerated	
2508 Velocity-Requested	Enumerated	
2509 Response-Time	Enumerated	
2510 Supported-GAD-Shapes	Unsigned32	
2510 Supported-GAD-Snapes 2511 LCS-Codeword	UTF8String	
2511 LCS-Codeword 2512 LCS-Privacy-Check	Enumerated	29.172 [24]
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator	Enumerated	
2513 Accuracy-Fulliment-indicator 2514 Age-Of-Location-Estimate	Unsigned32	
2514 Age-Oi-Location-Estimate 2515 Velocity-Estimate	OctetString	
2516 EUTRAN-Positioning-Data	OctetString	
2517 ECGI	OctetString	
2517 ECGI 2518 Location-Event	Enumerated	
2519 Pseudonym-Indicator	Enumerated	
2520 LCS-Service-Type-ID		
	Incianad22	
	Unsigned32 Grouped	
2521 LCS-Privacy-Check-Non-Session	Grouped	
2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session	Grouped Grouped	
2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class	Grouped	
2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172	Grouped Grouped	
2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172 2600 reserved	Grouped Grouped Enumerated	
2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172 2600 reserved 2601 IMS-Application-Reference-Identifier	Grouped Grouped Enumerated - UTF8String	
2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172 2600 reserved 2601 IMS-Application-Reference-Identifier 2602 Low-Priority-Indicator	Grouped Grouped Enumerated - UTF8String Enumerated	32 200 [5]
2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172 2600 reserved 2601 IMS-Application-Reference-Identifier 2602 Low-Priority-Indicator 2603 IP-Realm-Default-Indicator	Grouped Grouped Enumerated - UTF8String Enumerated Enumerated	32.299 [5]
2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172 2600 reserved 2601 IMS-Application-Reference-Identifier 2602 Low-Priority-Indicator 2603 IP-Realm-Default-Indicator 2604 Local-GW-Inserted-Indicator	Grouped Grouped Enumerated - UTF8String Enumerated Enumerated Enumerated Enumerated	32.299 [5]
2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class Note: The AVP codes from 2524 to 2599 are reserved for TS 29.172 2600 reserved 2601 IMS-Application-Reference-Identifier 2602 Low-Priority-Indicator 2603 IP-Realm-Default-Indicator	Grouped Grouped Enumerated - UTF8String Enumerated Enumerated	32.299 [5]

Note: The AVD and a from 2007 to 2000 are recomined for TO 22 200		
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299 2700 Not allocated		
2700 Not allocated	LITESString	
2701 Hanst-tof-List	UTF8String Enumerated	
2702 Status 2703 NNI-Information	Grouped	
2704 NNI-Type	Enumerated	
2704 NNI-Type 2705 Neighbour-Node-Address	Address	
2706 Relationship-Mode	Enumerated	
2707 Session-Direction	Enumerated	00 000 [5]
2708 From-Address	UTF8String	32.299 [5]
2709 Access-Transfer-Information Access-Transfer-Type	Grouped Enumerated	
2710 Access-Transfer-Type		
2711 Related-IMS-Charging-Identifier	UTF8String	
2712 Related-IMS-Charging-Identifier-Node	Address	
2713 IMS-Visited-Network-Identifier	UTF8String	
2714 TWAN-User-Location-Info	Grouped	
2715 TWAN-SSID	UTF8String	
2716 TWAN-BSSID	UTF8String	
Note: The AVP codes from 2717 to 2799 are reserved for TS 32.299		T
2800 Reserved		
2801 ADC-Revalidation-Time	Time	
2802 TDF-Application-Instance-Identifier	OctetString	
2803 HeNB-BBF-FQDN	UTF8String	
2804 HeNB-Local-IP-Address	Address	
2805 UE-Local-IP-Address	Address	
2806 UDP-Source-Port	Unsigned32	
2807 CS-Service-Qos-Request-Identifier	OctetString	29.212 [19]
2808 CS-Service-QoS-Request-Operation	Enumerated	20.212 [10]
2809 Mute-Notification	Enumerated	
2810 Monitoring-Time	Time	
2811 AN-GW-Status	Enumerated	
2812 User-Location-Info-Time	Grouped	
10040 00 0-miles Deserve D		
2813 CS-Service-Resource-Report	Time	
2814 CS-Service-Resource-Failure-Cause	Time Enumerated	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation		
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212	Enumerated	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved	Enumerated	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier	Enumerated Enumerated - Grouped	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status	Enumerated Enumerated - Grouped UTF8String	29.219 [26]
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report	Enumerated Enumerated - Grouped UTF8String Grouped	29.219 [26]
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type	Enumerated Enumerated - Grouped UTF8String	29.219 [26]
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219	Enumerated Enumerated - Grouped UTF8String Grouped	29.219 [26]
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved	Enumerated Enumerated - Grouped UTF8String Grouped Enumerated	29.219 [26]
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action	Enumerated Enumerated - Grouped UTF8String Grouped Enumerated - Grouped	29.219 [26]
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification	Enumerated Enumerated - Grouped UTF8String Grouped Enumerated - Grouped Grouped Grouped	29.219 [26]
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data	Enumerated Enumerated - Grouped UTF8String Grouped Enumerated - Grouped Grouped Grouped Grouped	29.219 [26]
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload	Enumerated Enumerated - Grouped UTF8String Grouped Enumerated - Grouped Grouped Grouped Grouped Grouped OctetString	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type	Enumerated Enumerated - Grouped UTF8String Grouped Enumerated - Grouped Grouped Grouped Grouped Grouped OctetString Enumerated	29.219 [26] 29.368 [27]
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication	Enumerated Enumerated - Grouped UTF8String Grouped Enumerated - Grouped Grouped Grouped Grouped Grouped OctetString Enumerated Enumerated	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number	Enumerated Enumerated - Grouped UTF8String Grouped Enumerated - Grouped Grouped Grouped Grouped Grouped OctetString Enumerated	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status	Enumerated Enumerated - Grouped UTF8String Grouped Enumerated - Grouped Grouped Grouped Grouped Grouped OctetString Enumerated Enumerated	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome	Enumerated Enumerated - Grouped UTF8String Grouped Enumerated - Grouped Grouped Grouped Grouped Grouped Utf8tring Grouped Grouped Grouped Utf8tring Enumerated Enumerated Unsigned32	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome 3010 Application-Port-Identifier	Enumerated Enumerated - Grouped UTF8String Grouped Enumerated - Grouped Grouped Grouped Grouped OctetString Enumerated Enumerated Unsigned32 Enumerated	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome	Enumerated Enumerated - Grouped UTF8String Grouped Enumerated - Grouped Grouped Grouped Grouped OctetString Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome 3010 Application-Port-Identifier	Enumerated Enumerated - Grouped UTF8String Grouped Enumerated - Grouped Grouped Grouped Grouped OctetString Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome 3010 Application-Port-Identifier Note: The AVP codes from 3011to 3099 are reserved for TS 29.368	Enumerated Enumerated - Grouped UTF8String Grouped Enumerated - Grouped Grouped Grouped Grouped OctetString Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Unsigned32	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome 3010 Application-Port-Identifier Note: The AVP codes from 3011to 3099 are reserved for TS 29.368 3100 IP-SM-GW-Number	Enumerated Enumerated - Grouped UTF8String Grouped Enumerated - Grouped Grouped Grouped Grouped OctetString Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 OctetString	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome 3010 Application-Port-Identifier Note: The AVP codes from 3011to 3099 are reserved for TS 29.368 3100 IP-SM-GW-Number 3101 IP-SM-GW-Name	Enumerated Enumerated Grouped UTF8String Grouped Enumerated Grouped Grouped Grouped Grouped Uttstring Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Enumerated Enumerated Unsigned32	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome 3010 Application-Port-Identifier Note: The AVP codes from 3011to 3099 are reserved for TS 29.368 3100 IP-SM-GW-Number 3101 IP-SM-GW-Name 3102 User-Identifier	Enumerated Fnumerated Grouped UTF8String Grouped Enumerated - Grouped Grouped Grouped Grouped Grouped Unsigned32 Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated Grouped OctetString Enumerated Enumerated Enumerated Enumerated Enumerated Grouped Grouped	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome 3010 Application-Port-Identifier Note: The AVP codes from 3011to 3099 are reserved for TS 29.368 3100 IP-SM-GW-Number 3101 IP-SM-GW-Name 3102 User-Identifier 3103 Service-ID 3104 SCS-Identity	Enumerated Enumerated	
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome 3010 Application-Port-Identifier Note: The AVP codes from 3011to 3099 are reserved for TS 29.368 3100 IP-SM-GW-Number 3101 IP-SM-GW-Name 3102 User-Identifier 3103 Service-ID 3104 SCS-Identity 3105 Service-Parameters	Enumerated Enumerated	29.368 [27]
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome 3010 Application-Port-Identifier Note: The AVP codes from 3011to 3099 are reserved for TS 29.368 3100 IP-SM-GW-Number 3101 IP-SM-GW-Name 3102 User-Identifier 3103 Service-ID 3104 SCS-Identity 3105 Service-Parameters 3106 T4-Parameters	Enumerated Enumerated Grouped UTF8String Grouped Enumerated Grouped Grouped Grouped Grouped OctetString Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Enumerated OctetString Diameter Identity Grouped Enumerated Grouped Grouped Grouped Grouped	29.368 [27]
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome 3010 Application-Port-Identifier Note: The AVP codes from 3011to 3099 are reserved for TS 29.368 3100 IP-SM-GW-Number 3101 IP-SM-GW-Name 3102 User-Identifier 3103 Service-ID 3104 SCS-Identity 3105 Service-Parameters 3106 T4-Parameters 3107 Service-Data	Enumerated Enumerated Grouped UTF8String Grouped Enumerated Grouped Grouped Grouped Grouped OctetString Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Enumerated OctetString Diameter Identity Grouped Enumerated Grouped Grouped Grouped Grouped	29.368 [27]
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome 3010 Application-Port-Identifier Note: The AVP codes from 3011 to 3099 are reserved for TS 29.368 3100 IP-SM-GW-Number 3101 IP-SM-GW-Number 3102 User-Identifier 3103 Service-ID 3104 SCS-Identity 3105 Service-Parameters 3106 T4-Parameters 3107 Service-Data 3108 T4-Data	Enumerated Enumerated Grouped UTF8String Grouped Enumerated Grouped Grouped Grouped Grouped Grouped Unsigned32 Enumerated Unsigned32 Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Grouped	29.368 [27]
2814 CS-Service-Resource-Failure-Cause 2815 CS-Service-Resource-Result-Operation Note: The AVP codes from 2816 to 2899 are reserved for TS 29.212 2900 reserved 2901 Policy-Counter-Identifier 2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report 2904 SL-Request-Type Note: The AVP codes from 2905 to 2999 are reserved for TS 29.219 3000 reserved 3001 Device-Action 3002 Device-Notification 3003 Trigger-Data 3004 Payload 3005 Action-Type 3006 Priority-Indication 3007 Reference-Number 3008 Request-Status 3009 Delivery-Outcome 3010 Application-Port-Identifier Note: The AVP codes from 3011to 3099 are reserved for TS 29.368 3100 IP-SM-GW-Number 3101 IP-SM-GW-Name 3102 User-Identifier 3103 Service-ID 3104 SCS-Identity 3105 Service-Parameters 3106 T4-Parameters 3107 Service-Data	Enumerated Enumerated Grouped UTF8String Grouped Enumerated Grouped Grouped Grouped Grouped OctetString Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Enumerated OctetString Diameter Identity Grouped Enumerated Grouped Grouped Grouped Grouped	29.368 [27]

3111	External-Identifier	UTF8String	
Note:	The AVP codes from 3112 to 3199 are reserved for TS 29.336		
	SM-Delivery-Outcome-T4	Enumerated	20 227 [20]
3201	Absent-Subscriber-Diagnostic-T4	Enumerated	29.337 [29]
Note:	The AVP codes from 3202 to 3299 are reserved for TS 29.337		
3300	SC-Address	OctetString	
3301	SM-RP-UI	OctetString	
3302	TFR-Flags	Unsigned32	
3303	SM-Delivery- Failure-Cause	Grouped	
3304	SM-Enumerated-Delivery-Failure-Cause	Enumerated	
3305	SM-Diagnostic-Info	OctetString	
	SM-Delivery-Timer	Unsigned32	
	SM-Delivery-Start-Time	Time	
3308	SM-RP-MTI	Enumerated	
3309	SM-RP-SMEA	OctetString	
3310	SRR-Flags	Unsigned32	
3311	SM-Delivery-Not-Intended	Enumerated	29.338 [30]
	MWD-Status	Unsigned32	
3313	MME-Absent-User-Subscriber-Diagnostic-SM	Enumerated	
3314	MSC-Absent-User-Subscriber-Diagnostic-SM	Enumerated	
3315	SGSN-Absent-User-Subscriber-Diagnostic SM	Enumerated	
3316	SM-Delivery-Outcome	Grouped	
3317	MME-SM-Delivery-Outcome	Grouped	
3318	MSC-SM-Delivery-Outcome	Grouped	
	SGSN-SM-Delivery-Outcome	Grouped	
3320	IP-SM-GW-SM-Delivery-Outcome	Grouped	
3321	SM-Delivery-Cause	Enumerated	
3322	Absent-User-Subscriber-Diagnostic-SM	OctetString	
Note:	The AVP codes from 3323 to 3399 are reserved for TS 29.338		

8 Experimental result codes

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

8.1 3GPP specific result codes

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

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

8.1.1 Informational

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

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

8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

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

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS	
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.	
4121	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]
Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061.	
4141	DIAMETER_PCC_BEARER_EVENT	
4142	DIAMETER_BEARER_EVENT	29.212 [19]
4143	DIAMETER_AN_GW_FAILED	
Note: The Experime	ntal Result Codes from 4144 to 4160 are reserved for the TS 29.212	
		32.299 [5]
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.	
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	29.272 [21]
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.	
4201	DIAMETER_ERROR_ABSENT_USER	29.173 [25]
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.	
4221	DIAMETER_ERROR_UNREACHABLE_USER	
4222	DIAMETER_ERROR_SUSPENDED_USER	
4223	DIAMETER_ERROR_DETACHED_USER	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 Experime	ntal Result Codes from 4242 to 4260 are reserved for the TS 29.219.	

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER ERROR USER UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER ERROR AUTH SCHEME NOT SUPPORTED	29.229 [2]
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5007	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	
		32.299 [5]
	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	101 4 00 00
	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]
29.2		9.209 and 15
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	
5105	DIAMETER_ERROR_TRANSPARENT_DATA	29.329 [4]
3103	OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	erimental Result Codes from 5109 to 5119 are reserved for the TS	S 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
Note: The Expe	rimental Result Codes from 5124 to 5139 are reserved for the T	S 29.061.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER PCC RULE_EVENT	
5143	DIAMETER ERROR BEARER NOT AUTHORIZED	
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	
J144	ID	29.212 [19]
E4 4 F		
5145	DIAMETER_QOS_RULE_EVENT	
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
5148	DIAMETER_ADC_RULE_EVENT	
	erimental Result Codes from 5149 to 5159 are reserved for the TS	S 29.212.
5401	DIAMETER_ERROR_IMPI_UNKNOWN	
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	•
	erimental Result Codes from 5404 to 5419 are reserved for the T	S 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
		23.212 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	2.00.070
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	erimental Result Codes from 5453 to 5469 are reserved for the TS	S 29.273.					
5470	DIAMETER_ERROR_SUBSESSION						
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME NT	29.215 [22]					
Note: The Expe	erimental Result Codes from 5472 to 5489 are reserved for the TS	S 29.215.					
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET WORK	29.173 [25]					
Note: The Expe	erimental Result Codes from 5491 to 5509 are reserved for the TS	S 29.173.					
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI						
	TY	29.336 [28]					
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE						
Note: The Expe	erimental 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	erimental Result Codes from 5533 to 5549 are reserved for the TS	S 29.337.					
5550	DIAMETER_ERROR_ABSENT_USER						
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS						
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED						
5553	DIAMETER_ERROR_ILLEGAL_USER						
5554	DIAMETER_ERROR_ILLEGAL_EQUIPMENT	29.338 [30]					
5555	DIAMETER_ERROR_SM_DELIVERY_FAILURE						
5556	DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED						
5557	DIAMETER_ERROR_SERVICE_BARRED						
5558	DIAMETER_ERROR_MWD_LIST_FULL						
Note: The 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	erimental Result Codes from 5571 to 5589 are reserved for the TS	S 29.219.					

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

Det	TCO "	TOO	00	Г.	Change history	101.1	INI
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		4	Removal of User Data Request Type AVP	6.0.0	6.1.0
	CN#25	NP-040412		1	Re-numbering of 3GPP specific AVP codes.	6.0.0	6.1.0
2004-12	CN#26	NP-040579		4	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 NP-040600		7	Addition of Gmb interface Documenting the Reuse of the 3GPP specific application identifier	6.1.0	6.2.0
2004-12	CN#26			2	of Ro for Re on the Charging Interfaces	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26	NP-040579			Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27	NP-050047		1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
		NP-050039			Allocations for Gx interface	ļ	
		NP-050039			Allocations for Gmb interface	ļ	
		NP-050039			Allocations for MMS, MM10 Interface		
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.3.0	6.4.0
		CP-050196		1	Addition of Maximum-Number-Accesses AVP		
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.4.0	6.5.0
		CP-050310			Addition of Pr reference point to TS 29.230	ļ	
		CP-050310			Error code cleanup	ļ	
		CP-050310	0056		Addition of Rx ref. point and renaming of Experimental Result Codes		
2005-09	CT#29	CP-050317	0055		Addition of GUSS timestamp AVP	6.5.0	7.0.0
2005-12	CT#30	CP-050624			Addition of GBA-Type AVP	7.0.0	7.1.0
		CP-050612			Additional Gmb AVP Allocation		
		CP-050612			Reservation of AVP codes for 32.299	i	
	Ì	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
		CP-060084			User-Data in the response to Sh-Subs-Notif	İ	
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure	İ	
2006-06	CT#32	CP-060302	0075		S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417	0077	3	New AVP Code	7.3.0	7.4.0
	ĺ	CP-060417			Errors to be sent in response to Sh-Notif	Ī	
	İ	CP-060417	0081		Definition of specific Diameter codes for DSAI	Ī	
2006-12	CT#34	CP-060566	0085	1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
		CP-060562	0086		Addition of Diameter Error Code for Emergency Purposes		
		CP-060555	0087		Allocation of new AVP codes for Gmb		
		CP-060555	0089		AVP code allocations for Rf and Ro interfaces		
	ĺ	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			Allocation of new AVP code for DSAI-Tag AVP		
		CP-070020	0093		Allocation of Experimental-Result-Code AVP for Gi Interface		
2007-06	CT#36	CP-070318			Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312	0098		Experimental-Result-Codes for Gmb interface		
	<u> </u>	CP-070312	0100		Correction of Diameter AVP code allocation	L	
	OT#07				Application ID for Compared	7.7.0	7.8.0
2007-09	CT#37	CP-070527			Application ID for Gx protocol	1	
2007-09 2007-12	CT#37	CP-070527 CP-070743			AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
					AVP code reservation for 32.299 in Rel-7 Allocation of 3GPP specific AVP codes and Experimental Result		7.9.0
2007-12	CT#38	CP-070743	0104 0105	4	AVP code reservation for 32.299 in Rel-7 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol	7.8.0	
2007-12			0104 0105 0101	4	AVP code reservation for 32.299 in Rel-7 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol AVP assignments to support SIP Digest Authentication		8.0.0
2007-12	CT#38	CP-070743 CP-070755	0104 0105 0101 0103	4	AVP code reservation for 32.299 in Rel-7 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol AVP assignments to support SIP Digest Authentication AVP code reservation for 32.299 in Rel-8	7.8.0	8.0.0
2007-12	CT#38	CP-070743 CP-070755 CP-080015	0104 0105 0101 0103 0109	4	AVP code reservation for 32.299 in Rel-7 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol AVP assignments to support SIP Digest Authentication AVP code reservation for 32.299 in Rel-8 Correction of reference to TS 29.140	7.8.0	
	CT#38	CP-070743 CP-070755 CP-080015 CP-080019	0104 0105 0101 0103 0109 0111	4	AVP code reservation for 32.299 in Rel-7 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol AVP assignments to support SIP Digest Authentication AVP code reservation for 32.299 in Rel-8 Correction of reference to TS 29.140 AVP code reservation for TS 32.299 in Rel-8	7.8.0	8.0.0
2007-12	CT#38	CP-070743 CP-070755 CP-080015	0104 0105 0101 0103 0109 0111 0107		AVP code reservation for 32.299 in Rel-7 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol AVP assignments to support SIP Digest Authentication AVP code reservation for 32.299 in Rel-8 Correction of reference to TS 29.140 AVP code reservation for TS 32.299 in Rel-8 Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in	7.8.0	8.0.0
2007-12	CT#38	CP-070743 CP-070755 CP-080015 CP-080019 CP-080191	0104 0105 0101 0103 0109 0111 0107 0112		AVP code reservation for 32.299 in Rel-7 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol AVP assignments to support SIP Digest Authentication AVP code reservation for 32.299 in Rel-8 Correction of reference to TS 29.140 AVP code reservation for TS 32.299 in Rel-8 Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7	7.8.0	8.0.0
2007-12 2007-12 2008-03	CT#38 CT#38 CT#39	CP-070743 CP-070755 CP-080015 CP-080019 CP-080191 CP-080204	0104 0105 0101 0103 0109 0111 0107 0112		AVP code reservation for 32.299 in Rel-7 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol AVP assignments to support SIP Digest Authentication AVP code reservation for 32.299 in Rel-8 Correction of reference to TS 29.140 AVP code reservation for TS 32.299 in Rel-8 Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7 Correction on AVP code allocation reservation for TS 32.299	7.8.0 7.9.0 8.0.0	8.0.0
2007-12 2007-12 2008-03 2008-06	CT#38 CT#38 CT#39 CT#40	CP-070743 CP-070755 CP-080015 CP-080019 CP-080191 CP-080204 CP-080267	0104 0105 0101 0103 0109 0111 0107 0112 0113 0117		AVP code reservation for 32.299 in Rel-7 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol AVP assignments to support SIP Digest Authentication AVP code reservation for 32.299 in Rel-8 Correction of reference to TS 29.140 AVP code reservation for TS 32.299 in Rel-8 Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7 Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx	7.8.0 7.9.0 8.0.0	8.0.0 8.1.0 8.2.0
2007-12 2007-12 2008-03 2008-06 2008-09	CT#38 CT#39 CT#40 CT#41	CP-070743 CP-070755 CP-080015 CP-080019 CP-080191 CP-080204 CP-080267 CP-080456	0104 0105 0101 0103 0109 0111 0107 0112 0113 0117 0119		AVP code reservation for 32.299 in Rel-7 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol AVP assignments to support SIP Digest Authentication AVP code reservation for 32.299 in Rel-8 Correction of reference to TS 29.140 AVP code reservation for TS 32.299 in Rel-8 Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7 Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal	7.8.0 7.9.0 8.0.0	8.0.0
2007-12	CT#38 CT#38 CT#39 CT#40	CP-070743 CP-070755 CP-080015 CP-080019 CP-080191 CP-080204 CP-080267	0104 0105 0101 0103 0109 0111 0107 0112 0113 0117 0119 0121		AVP code reservation for 32.299 in Rel-7 Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol AVP assignments to support SIP Digest Authentication AVP code reservation for 32.299 in Rel-8 Correction of reference to TS 29.140 AVP code reservation for TS 32.299 in Rel-8 Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7 Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx	7.8.0 7.9.0 8.0.0	8.0.0 8.1.0 8.2.0

2008-09	CT#41	CP-080463			Assignment) New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42	CP-080691			Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691	0128	1	Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044	0130	1	Update for ReadyForSM	8.4.0	8.5.0
2009-03	CT#43	CP-090044	0131	1	Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090026	0132		Update for Restoration	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.4.0	8.5.0
2009-03	CT#43	CP-090033			Appld and command code for Zpn	8.4.0	8.5.0
2009-03	CT#43	CP-090024			AVP codes for S9 protocol	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Diameter AVP Code allocation	8.4.0	8.5.0
2009-03	CT#43	CP-090024			Location of Permanent Failure result code range for the S9 application	8.4.0	8.5.0
2009-03	CT#43	CP-090024	0141		AVPs for TS 29.273	8.4.0	8.5.0
2009-03	CT#43	CP-090024		1	Error code allocation for authentication failure	8.4.0	8.5.0
2009-06	CT#44	CP-090299			Update of the AVP Codes	8.5.0	8.6.
-000 00	0 1 // 1 1	CP-090299		<u> </u>	AVP code reservation for TS 32.299	0.0.0	0.0.
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13"	†	
		CF-090299	0146		Removal of Requesting Node Type from AIR	-	
		CD 000000				-	
2000 00	OT#45	CP-090299			S6b Application ID	0.00	0.7
2009-09	CT#45	CP-090530		 	Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
		CP-090530		<u> </u>	AVP code allocation for TS 29.212	4	
		CP-090531		<u> </u>	Update of the AVP type for the User-Id	1	
	1	CP-090531			Trace Depth per session	1	<u> </u>
2009-09	CT#45	CP-090557			AVP code range for charging	8.7.0	9.0.
2009-12	CT#46	CP-090800			ICS-Flag	9.0.0	9.1.
		CP-091032			From GMLC-Address to GMLC-Number	1	
			0160		Session-Priority AVP		
			0163	2	Introduction of SLh application related AVPs and Experimental Result codes		
			0166		Missing AVP error codes		
		CP-090797		1	Introduction of SLg application related AVPs and Application		
				-	Identifier		
2010-03	CT#47	CP-100031	0158	1	Wildcarded Public Identity	9.1.0	9.2.
		CP-100034			Correction on AVP code allocation reservation for TS 32.299 in		
					Rel-9		
		CP-100046	0169	1	AVP code allocation for 29.172		
		CP-100036			GPL_U support in TS 29.109		
		CP-100046			Error codes in 29.172 for SLg		
		CP-100048			AVPs in 29.272 for TADS support		
		CP-100040			Error codes in 29.272 for Unknown MME		
		CP-100236		4	EPS Subcsriber State and Location Information Request		
		CP-100033			One time notification AVP allocation		
		CP-100046	0181		Addition of the LCS-QoS-Class attribute value		
		CP-100175			Introduction of the LCS-Capabilities-Sets AVP in SLh interface		
2010-06	CT#48	CP-100263		1	AVP Codes for PCC	9.2.0	9.3.
			0183		EPS state and location retrieval		
		CP-100287			SGmb Application ID		
		CP-100277			New APVs in S6a protocol		
2010-09	CT#49	CP-100463			Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.
					interfaces		
		CP-100464	0196		AVP Codes Allocation for PCC	1	İ
2010-09	CT#49	CP-100465		1	SIPTO Permission Indicator	9.4.0	10.0
	1	CP-100466			Location data including only serving node address	1	
		CP-100466			AVP for Update-Eff feature	1	
2010-12	CT#50	CP-100699			Enhanced SRVCC Subscriber Data	10.0.0	10.
		CP-100687			Allocate codes for AVPs on eMPS		1
		CP-100683			Allocate codes for AVPs on LIPA		İ
		CP-100688			Periodic TAU/RAU timer in HSS subscription		İ
		CP-100846			S6a Error Diagnostic	1	
2011-03	CT#51	CP-110051			PDP-Address correction	10.1.0	10 1
	2 / // 3 /	CP-110054			Essential correction on the value type of the ELP Application AVPs	1 3. 1.0	. 5.2
	1	CP-110087			Minimization of Drive Tests (MDT)	1	
		CP-110088			Relay Node Indicator AVPs	1	
2011-06	CT#52	CP-110349			Handling of RTR for Emergency Registration	10.2.0	10 1
2011-06 CT	0 1 11 02	CP-110347			Add AVPs from QSPEC cleanup	. 3.2.0	
		CP-110359		i -	MIPv4 security parameters on the STa and S6b interfaces	1	
	-	CP-110339			MDT user consent	1	
	1	CP-110380 CP-110370			AVP Code Allocation for Pre-paging	-	
			0223			4	
			0227	1	DID-Flage AVD		
2011 00	OT#52	CP-110375			PUR-Flags AVP	10.2.0	10
2011-09	CT#53	CP-110375 CP-110559	0236	1	AVP code alignment with 29.212	10.3.0	10.4
<u>?</u> 011-09	CT#53	CP-110375	0236 0239	1		10.3.0	10.4

		CP-110555	0252		Failure code and AVP code alignment with 29.212	7	I
		CP-110333			Priviledged sender	-	
2011-09	CT#53	CP-110584			Add vSRVCC updates to the Diameter AVP code table	10 4 0	11.0.0
2011 00	01//00	CP-110579			AVP code alignment with 32.299	10.4.0	11.0.0
		CP-110555			AVP code reservation for 29.212		
2011-12	CT#54	CP-110812		1	SWx Restoration AVPs	11.0.0	11.1.0
		CP-110812	0259		Sy and Sd Application IDs		
	İ	CP-110775			New AVP codes for MBMS IP unicast encapsulation		İ
	İ	CP-110775			New AVP codes for MBMS IP multicast encapsulation		İ
		CP-110786		1	MME-Realm AVP code allocation		
	İ	CP-110811			Equivalent PLMN CSG Subscription Request		Ì
	İ	CP-110781		1	Restoration of Wildcarded-IMPU AVP		Ì
2012-03	CT#55	CP-120025	0286	1	Codes Allocation for AVPs on Initial Attach	11.1.0	11.2.0
		CP-120038			New AVP codes for Absolute Time of MBMS Data Transfer over		
					SGmb		
		CP-120038	0291	1	Allocating Diameter AVP codes for TS 29.219 and TS 29.212		Ì
2012-06	CT#56	CP-120240	0287	5	Codes Allocation for AVPs on NPLI	11.2.0	11.3.0
		CP-120238	0294	1	Adding new Diameter AVPs to Diameter table to support Trusted		Ì
					WLAN Access feature		
		CP-120225	0296	1	Trust Relationship Indication		
		CP-120251			Corrections to reference titles		
		CP-120251	0298	1	Diameter Code Allocation for TS 29.219		
		CP-120247	0300	-	Network Name AVP codes		
		CP-120219	0304	-	Duplicated AVP names		
2012-09	CT#57	CP-120481	0289	3	PS additional number allocation	11.3.0	11.4.0
		CP-120473			SMS in MME/SGSN		
		CP-120461			AAA Failure Recovery AVP codes		
		CP-120474			Transport Access Type AVP for BBAI		
		CP-120480			Local Time Zone		
		CP-120472	0308	-	Allocating Application Identifier and command code for Tsp		
					interface		
		CP-120472	0309	-	Application Identifier, Command Codes and AVP range for S6m		
					interface		ļ
		CP-120667			GMLC-Name		ļ
			0313		Reference list correction to align with the corrected TS 29.212 title		
2012-12	CT#58	CP-120731			T4 device triggering via IMS	11.4.0	11.5.0
		CP-120731			Codes and Identifier Allocation for T4 Specification		
		CP-120731			AVP Code Allocation for 29.336		
	ļ	CP-120731			Diameter AVP code value allocation in TS 29.368		
		CP-120732	0319	2	Application Identifier, Command Codes and AVP codes for SGd,		
		00 100-10			S6c		
		CP-120716			AVP name modification in TS 32.299	4	
		CP-120742			UE Time Zone AVP		
		CP-120741		1	Use of Flag instead of Enumerated AVPs		
		CP-120741		-	Use of Flag instead of Enumerated AVPs		
		CP-120743		-	PSI direct routing with restoration procedures	4	
0040.00	07,150	CP-120743		-	EPS LocationInformation Support	44.5.0	4400
2013-03	CT#59	CP-130026			Diameter error code for TS 29.219	11.5.0	11.6.0
0010.00	OT#00	CP-130026			MDT parameters	44.0.0	4470
2013-06	CT#60	CP-130288		1	Add new DER-S6b-flag AVP	11.6.0	11.7.0
		CP-130298		-	Failure Result Codes Allocation for TS 29.219	-	}
		CP-130292			Diameter AVP codes for new TS 32.299 AVPs	4	}
		CP-130279			Definition of SS Status for Call Barring	4	}
		CP-130297			Application Port Identifier	4	
		CP-130295			Restoration Priority during SGW and PGW restoration procedures	4	
0040.00	OT#04	CP-130374			MTRR on Sh	44 7 0	44.0.0
2013-09	CT#61	CP-130460		-	Allocation of Diameter codes and identifiers for 29.212 and 29.215		11.8.0
2013-12	CT#62	CP-130600		-	Allocation of Diameter codes for 32.299	11.8.0	11.9.0
1		CP-130605			Allocation of Diameter codes for 29.212	4	}
		CP-130605	03/9	1	Command Code Value correction for TER/TEA		<u> </u>

History

Document history							
V11.4.0	October 2012	Publication					
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