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> Diameter applications; 3GPP specific codes and identifiers (3GPP TS 29.230 version 14.7.0 Release 14)



Reference RTS/TSGC-0429230ve70 Keywords

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Foreword

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1 Scope

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

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

2 References

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

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

Diameter protocol; Stage 3".

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

[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, Release 11: "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, Release 6: "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, Release 6: "Charging rule provisioning over Gx interface".
[16]	3GPP TS 29.140, Release 6: "Multimedia Messaging Service (MMS); MM10 interface based on

3GPP TS 29.211, Release 6: "Rx Interface and Rx/Gx signalling flows".
3GPP TS 29.214: "Policy and Charging Control over Rx reference point".
3GPP TS 29.212: "Policy and Charging Control (PCC);Reference points".
3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces".
3GPP TS 29.272: "Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol".
3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point; Stage 3".
IETF RFC 5516: "Diameter Command Code Registration for Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)".
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".
3GPP TS 29.173: "Location Services (LCS); Diameter-based SLh interface for Control Plane LCS".
3GPP TS 29.219: "Policy and Charging Control: Spending Limit Reporting over Sy reference point".
3GPP TS 29.368: "Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS)".
3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications".
3GPP TS 29.337: "Diameter-based T4 interface for communications with packet data networks and applications".
3GPP TS 29.338: "Diameter based protocols to support SMS capable MMEs".
3GPP TS 29.468: "Group Communication System Enablers for LTE (GCSE_LTE)".
3GPP TS 29.343: "Proximity-services (ProSe) function to ProSe application server aspects (PC2)".
3GPP TS 29.344: "Proximity-services (ProSe) Function to Home Subscriber Server (HSS) aspects".
3GPP TS 29.345: "Inter-Proximity-services (Prose) function signalling aspects; Stage 3".
3GPP TS 29.345: "Inter-Proximity-services (Prose) function signalling aspects; Stage 3". 3GPP TS 29.217: "Policy and Charging Control over Np reference point".
3GPP TS 29.217: "Policy and Charging Control over Np reference point".
3GPP TS 29.217: "Policy and Charging Control over Np reference point". 3GPP TS 29.128: "Diameter based T6a/T6b interface between the MME/SGSN and the SCEF".
3GPP TS 29.217: "Policy and Charging Control over Np reference point". 3GPP TS 29.128: "Diameter based T6a/T6b interface between the MME/SGSN and the SCEF". 3GPP TS 29.153: "Service exposure functionality between SCEF and RCAF reference point".
3GPP TS 29.217: "Policy and Charging Control over Np reference point". 3GPP TS 29.128: "Diameter based T6a/T6b interface between the MME/SGSN and the SCEF". 3GPP TS 29.153: "Service exposure functionality between SCEF and RCAF reference point". 3GPP TS 29.154: "Service capability exposure functionality over Nt Reference point".

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

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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 S6c 29.338 [30] 16777312 3GPP S6c 29.338 [30] 16777313 3GPP SGd 29.338 [30] 16777318 3GPP SGd 29.338 [30] 16777319 3GPP S9a 29.212 [19] 16777320 3GPP S9a 29.215 [22] 16777335 3GPP MB2-C 29.468 [31] 16777336 3GPP PC4a 29.344 [33] 16777340 3GPP PC2 29.343 [32] 16777342 3GPP Np 29.217 [35] 16777345 3GPP S6t 29.336 [28] 16777346 3GPP S6t 29.336 [28] 16777348 3GPP Ns 29.153[37] 16777349 3GPP Ns 29.154[38] 16777350 3GPP Diameter Data 29.283 [39] Management	16777291	3GPP SLh	29.173 [25]
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 SGd 29.338 [30] 16777319 3GPP S9a 29.212 [19] 16777320 3GPP S9a 29.215 [22] 16777335 3GPP MB2-C 29.468 [31] 16777336 3GPP PC4a 29.344 [33] 16777337 3GPP PC2 29.343 [32] 16777340 3GPP PC2 29.343 [32] 16777342 3GPP Np 29.217 [35] 16777345 3GPP S6t 29.336 [28] 16777346 3GPP Ns 29.153 [37] 16777348 3GPP Ns 29.153 [37] 16777349 3GPP St 29.212 [19] 16777350 3GPP Diameter Data 29.283 [39] Management	16777292	3GPP SGmb	29.061 [13]
16777308 3GPP S7a 29.272 [21] 16777309 3GPP Tsp 29.368 [27] 16777310 3GPP S6m 29.336 [28] 16777311 3GPP T4 29.337 [29] 16777312 3GPP S6c 29.338 [30] 16777313 3GPP SGd 29.338 [30] 16777318 3GPP S15 29.212 [19] 16777319 3GPP S9a 29.215 [22] 16777320 3GPP S9a* 29.215 [22] 16777335 3GPP MB2-C 29.468 [31] 16777336 3GPP PC4a 29.344 [33] 16777337 3GPP PC2 29.343 [32] 16777340 3GPP PC6/PC7 29.345 [34] 16777342 3GPP Np 29.217 [35] 16777345 3GPP S6t 29.336 [28] 16777346 3GPP T6a/T6b 29.128 [36] 16777347 3GPP Ns 29.153[37] 16777349 3GPP Nt 29.154[38] 16777350 3GPP Diameter Data 29.283 [39] Management 16777355 3GPP Diameter Data 29.288 [40]	16777302	3GPP Sy	29.219 [26]
16777309 3GPP Tsp 29.368 [27] 16777310 3GPP S6m 29.336 [28] 16777311 3GPP T4 29.337 [29] 16777312 3GPP S6c 29.338 [30] 16777313 3GPP SGd 29.338 [30] 16777318 3GPP S15 29.212 [19] 16777319 3GPP S9a 29.215 [22] 16777320 3GPP S9a* 29.215 [22] 16777335 3GPP MB2-C 29.468 [31] 16777336 3GPP PC4a 29.344 [33] 16777340 3GPP PC2 29.343 [32] 16777342 3GPP Np 29.217 [35] 16777345 3GPP S6t 29.336 [28] 16777346 3GPP T6a/T6b 29.128 [36] 16777347 3GPP Ns 29.153[37] 16777348 3GPP Nt 29.154[38] 16777350 3GPP Diameter Data Management 29.283 [39] 16777351 3GPP Diameter Data Management 29.288 [40]	16777303	3GPP Sd	29.212 [19]
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 SGd 29.338 [30] 16777319 3GPP S9a 29.212 [19] 16777320 3GPP S9a* 29.215 [22] 16777335 3GPP MB2-C 29.468 [31] 16777336 3GPP PC4a 29.344 [33] 16777337 3GPP PC2 29.343 [32] 16777340 3GPP PC6/PC7 29.345 [34] 16777342 3GPP Np 29.217 [35] 16777345 3GPP S6t 29.336 [28] 16777347 3GPP Ns 29.128 [36] 16777348 3GPP Nt 29.153[37] 16777349 3GPP St 29.212 [19] 16777350 3GPP Diameter Data Management 29.283 [39] Management 16777355 3GPP V4 29.388 [40]	16777308	3GPP S7a	29.272 [21]
16777311 3GPP T4 29.337 [29] 16777312 3GPP S6c 29.338 [30] 16777313 3GPP SGd 29.338 [30] 16777318 3GPP S15 29.212 [19] 16777319 3GPP S9a 29.215 [22] 16777320 3GPP S9a* 29.215 [22] 16777335 3GPP MB2-C 29.468 [31] 16777336 3GPP PC4a 29.344 [33] 16777337 3GPP PC2 29.343 [32] 16777340 3GPP PC6/PC7 29.345 [34] 16777342 3GPP Np 29.217 [35] 16777345 3GPP S6t 29.336 [28] 16777346 3GPP Ns 29.128 [36] 16777347 3GPP Ns 29.153[37] 16777348 3GPP Nt 29.154[38] 16777349 3GPP St 29.212 [19] 16777350 3GPP Diameter Data 29.283 [39] Management 16777355 3GPP V4 29.388 [40]	16777309	3GPP Tsp	29.368 [27]
16777312 3GPP S6c 29.338 [30] 16777313 3GPP SGd 29.338 [30] 16777318 3GPP S15 29.212 [19] 16777319 3GPP S9a 29.215 [22] 16777320 3GPP S9a* 29.215 [22] 16777335 3GPP MB2-C 29.468 [31] 16777336 3GPP MB2-C 29.344 [33] 16777337 3GPP PC4a 29.343 [32] 16777340 3GPP PC6/PC7 29.345 [34] 16777342 3GPP Np 29.217 [35] 16777345 3GPP S6t 29.336 [28] 16777346 3GPP Ns 29.128 [36] 16777347 3GPP Ns 29.153[37] 16777348 3GPP Nt 29.154[38] 16777349 3GPP St 29.212 [19] 16777350 3GPP Diameter Data Management 29.283 [39] 16777355 3GPP Diameter Data Management 29.288 [40]	16777310	3GPP S6m	29.336 [28]
16777313 3GPP SGd 29.338 [30] 16777318 3GPP S15 29.212 [19] 16777319 3GPP S9a 29.215 [22] 16777320 3GPP S9a* 29.215 [22] 16777335 3GPP MB2-C 29.468 [31] 16777336 3GPP PC4a 29.344 [33] 16777337 3GPP PC2 29.343 [32] 16777340 3GPP PC6/PC7 29.345 [34] 16777342 3GPP Np 29.217 [35] 16777345 3GPP S6t 29.336 [28] 16777346 3GPP Ns 29.128 [36] 16777347 3GPP Ns 29.153[37] 16777348 3GPP Nt 29.154[38] 16777350 3GPP St 29.212 [19] 16777351 3GPP Diameter Data Management 29.283 [39] 16777355 3GPP V4 29.388 [40]	16777311	3GPP T4	29.337 [29]
16777318 3GPP S15 29.212 [19] 16777319 3GPP S9a 29.215 [22] 16777320 3GPP S9a* 29.215 [22] 16777335 3GPP MB2-C 29.468 [31] 16777336 3GPP PC4a 29.344 [33] 16777337 3GPP PC2 29.343 [32] 16777340 3GPP PC6/PC7 29.345 [34] 16777342 3GPP Np 29.217 [35] 16777345 3GPP S6t 29.336 [28] 16777346 3GPP T6a/T6b 29.128 [36] 16777347 3GPP Ns 29.153[37] 16777348 3GPP Nt 29.154[38] 16777350 3GPP St 29.212 [19] 16777351 3GPP Diameter Data Management 29.283 [39] 16777355 3GPP V4 29.388 [40]			29.338 [30]
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16777320 3GPP S9a* 29.215 [22] 16777335 3GPP MB2-C 29.468 [31] 16777336 3GPP PC4a 29.344 [33] 16777337 3GPP PC2 29.343 [32] 16777340 3GPP PC6/PC7 29.345 [34] 16777342 3GPP Np 29.217 [35] 16777345 3GPP S6t 29.336 [28] 16777346 3GPP T6a/T6b 29.128 [36] 16777347 3GPP Ns 29.153[37] 16777348 3GPP Nt 29.154[38] 16777349 3GPP St 29.212 [19] 16777350 3GPP Diameter Data Management 29.283 [39] Management 29.388 [40]			
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16777342 3GPP Np 29.217 [35] 16777345 3GPP S6t 29.336 [28] 16777346 3GPP T6a/T6b 29.128 [36] 16777347 3GPP Ns 29.153[37] 16777348 3GPP Nt 29.154[38] 16777349 3GPP St 29.212 [19] 16777350 3GPP PC2 29.343 [32] 16777351 3GPP Diameter Data Management 29.283 [39] 16777355 3GPP V4 29.388 [40]	16777337	3GPP PC2	
16777345 3GPP S6t 29.336 [28] 16777346 3GPP T6a/T6b 29.128 [36] 16777347 3GPP Ns 29.153[37] 16777348 3GPP Nt 29.154[38] 16777349 3GPP St 29.212 [19] 16777350 3GPP PC2 29.343 [32] 16777351 3GPP Diameter Data Management 29.283 [39] 16777355 3GPP V4 29.388 [40]			
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16777347 3GPP Ns 29.153[37] 16777348 3GPP Nt 29.154[38] 16777349 3GPP St 29.212 [19] 16777350 3GPP PC2 29.343 [32] 16777351 3GPP Diameter Data Management 29.283 [39] 16777355 3GPP V4 29.388 [40]			
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16777350 3GPP PC2 29.343 [32] 16777351 3GPP Diameter Data 29.283 [39] Management 29.388 [40]			
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16777355 3GPP V4 29.388 [40]	16777351		29.283 [39]
	16777355		29.388 [40]
		3GPP V6	

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		ecified in GPP TS		
300	User-Authorization-Request/-Answer	UAR/UAA				
301	Server-Assignment-Request/-Answer	SAR/SAA				
302	Location-Info-Request/-Answer	LIR/LIA				
303	Multimedia-Auth-Request/-Answer	MAR/MAA	29	.229 [2]		
304	Registration-Termination-Request/-	RTR/RTA				
	Answer					
305	Push-Profile-Request/-Answer	PPR/PPA				
306	User-Data-Request/-Answer	UDR/UDA				
307	Profile-Update-Request/-Answer	PUR/PUA	20	.329 [4]		
308	Subscribe-Notifications-Request/-Answer	SNR/SNA	28	.329 [4]		
309	Push-Notification-Request/-Answer	PNR/PNA				
310	Boostrapping-Info-Request/Answer	BIR/BIA	29	.109 [7]		
•	311 Message-Process-	Request/Answer	, and the second	MPR/MP	Α	29.140 [16]
	312 GBAPush-Info-Rec	uest/Answer	, and the second	GPR/GF	וי	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		
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		
8388731	TSSF-Notification-Request/Answer	TNR/TNA	29.212 [19]	
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA		
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]	
8388639	Device-Action-Request/Answer	DAR/DAA		
8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]	
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]	
8388718	Configuration-Information- Request/Answer	CIR/CIA		
8388719	Reporting-Information- Request/Answer	RIR/RIA	29.336 [28]	
8388726	NIDD-Information-Request/Answer	NIR/NIA	1	
8388643	Device-Trigger-Request/Answer	DTR/DTA		
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]	
8388662	GCS-Action-Request/Answer	GAR/GAA		
8388663	GCS-Notification-Request/Answer	GNR/GNA	29.468 [31]	
8388664	ProSe-Subscriber-Information- Request/Answer	PIR/PIA		
8388665	Update-ProSe-Subscriber-Data- Request/Answer	UPR/UPA		
8388666	ProSe-Notify-Request/Answer	PNR/PNA	29.344 [33]	
8388713	ProSe-Initial-Location-Information- Request/Answer	PSR/PSA		
8388668	ProSe-Authorization-Request/Answer	PAR/PAA		
8388669	ProSe-Discovery-Request/Answer	PDR/PDA	29.345 [34]	
8388670	ProSe-Match-Request/Answer	PMR/PMA	1	

8388671	ProSe-Match-Report-Info- Request/Answer	PIR/PIA	
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	
8388674	ProSe-Alert-Request/Answer	ALR/ALA	
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	_
8388676	ProXimity-Action-Request/Answer	PXR/PXA	
8388727	ProXimity-Application-Request/Answer	XAR/XAA	29.343 [32]
8388720	Non-Aggregated-RUCI-Report- Request/Answer	NRR/NRA	
8388721	Aggregated-RUCI-Report- Request/Answer	ARR/ARA	29.217 [35]
8388722	Modify-Uecontext-Request/Answer	MUR/MUA	
8388724	Network-Status-Request/Answer	NSR/NSA	
8388725	Network-Status-Continuous-Report- Request/Answer	NCR/NCA	29.153 [37]
8388723	Background-Data-Transfer- Request/Answer	BTR/BTA	29.154 [38]
8388728	Data-Pull-Request/Answer	DPR/DPA	
8388729	Data-Update-Request/Answer	DUR/DUA	29.283 [39]
8388730	Notification-Data-Request/Answer	NDR/NDA	
8388732	Connection-Management- Request/Answer	CMR/CMA	
8388733	MO-Data-Request/Answer	ODR/ODA	29.128 [36]
8388734	MT-Data-Request/Answer	TDR/TDA	

6 Vendor identifier

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

6.1 3GPP's vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
	3GPP-WLAN-APN-Id	OctetString	
	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
	3GPP-WLAN-QoS-Filter-Support	OctetString	0:6:-
	The AVP codes from 1 to 255 are reserved for backward ites (See TS 29.061 [13] and TS 29.234 [6])	s compatibility with 3GPP RADIUS Vendor	Specific
Note:	The AVP codes from 256 to 299 are reserved for future u	se.	
	Authentication-Method	Enumerated	
	Authentication-Information-SIM	OctetString	
	Authorization -Information-SIM	OctetString	
	WLAN-User-Data	Grouped Grouped	
	Charging-Data WLAN-Access	Enumerated	
	WLAN- 3GPP-IP-Access	Enumerated	
	APN-Authorized	Grouped	
	APN-Id		
	APN-Barring-Type	Enumerated	29.234 [6]
	WLAN-Direct-IP-Access	Enumerated	29.204 [0]
	Session-Request-Type	Enumerated	
	Routing-Policy	IPFilterRule	
	Max-Requested-Bandwidth Charging-Characteristics	OctetString	
	Charging-Characteristics Charging-Nodes	Integer Grouped	
	Primary-OCS-Charging-Function-Name	DiameterIdentity	
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
	3GPP-AAA-Server-Name	DiameterIdentity	
	Maximum-Number-Accesses	Unsigned32	
Note '	1: The AVP codes from 320 to 399 are reserved for TS 29		•
Note 2	2: The 3GPP-AAA-Server-Name definition is moved to TS	S 29.273 starting from Rel-12.	
400	GBA-UserSecSettings	OctetString	
	Transaction-Identifier NAF-Hostname	OctetString OctetString	
	GAA-Service-Identifier	OctetString	
404	Key-ExpiryTime	Time	
	ME-Key-Material	OctetString	
406	UICC-Key-Material GBA U-Awareness-Indicator	OctetString Enumerated	
	BootstrapInfoCreationTime	Time	
409	GUSS-Timestamp	Time	
	GBA-Type	Enumerated	29.109 [7]
	UE-Id UE-Id-Type	OctetString Enumerated	
413	UICC-App-Label	OctetString	
414	UICC-MÉ	Enumerated	
415	Requested-Key-Lifetime Private-Identity-Request	Time	
	GBA-Push-Info	Enumerated OctetString	
418	NAF-SA-Identifier	OctetString	
419	Security-Feature-Request	OctetString	
	Security-Feature-Response	OctetString	
	The AVP codes from 421 to 499 are reserved for TS 29.		
	Abort-Cause Access-Network-Charging-Address	Enumerated Address	
	Access-Network-Charging-Address Access-Network-Charging-Identifier	Grouped	
	Access-Network-Charging-Identifier-Value	OctetString	
	AF-Application-Identifier	OctetString	
	AF-Charging-Identifier	OctetString	29.209
	Authorization-Token	OctetString	[8], 29.211
	Flow-Description	IPFilterRule	[17],
	Flow-Grouping	Grouped	29.214
	Flow-Number	Unsigned32	[18]
	Flows	Grouped	
	Flow Users	Enumerated	
	Flow-Usage	Enumerated	
	Specific-Action Max-Requested-Bandwidth	Enumerated Unsigned32	
314	iviax-ivequesteu-pandwidtii	l Onsignedaz	

	[
	Max-Requested-Bandwidth-DL	Unsigned32	
	Max-Requested-Bandwidth-UL	Unsigned32	1
	Media-Component-Description	Grouped	
	Media-Component-Number	Unsigned32	1
	Media-Sub-Component AVP	Grouped	1
	Media-Type	Enumerated	1
	RR-Bandwidth	Unsigned32	1
	RS-Bandwidth	Unsigned32	1
	SIP-Forking-Indication	Enumerated	<u> </u>
	Codec-Data	OctetString	<u> </u>
	Service-URN	OctetString	↓
	Acceptable-Service-Info	Grouped	1
	Service-Info-Status	Enumerated	1
	MPS-Identifier	OctetString	1
	AF-Signalling-Protocol	Enumerated	1
	Sponsored-Connectivity-Data	Grouped	
	Sponsor-Identity	OctetString	. I
	Application-Service-Provider-Identity	OctetString	<u> </u>
	Rx-Request-Type	Enumerated	<u> </u>
	Min-Requested-Bandwidth-DL	Unsigned32	1
	Min-Requested-Bandwidth-UL	Unsigned32	1
	Required-Access-Info	Enumerated	1
	IP-Domain-Id	OctetString	1
538	GCS-Identifier	OctetString	I
539	Sharing-Key-DL	Unsigned32	
540	Sharing-Key-UL	Unsigned32]
	Retry-Interval	Unsigned32	1
	Sponsoring-Action	Enumerated	1
	Max-Supported-Bandwidth-DL	Unsigned32	1
	Max-Supported-Bandwidth-UL	Unsigned32	1
	Min-Desired-Bandwidth-DL	Unsigned32	†
	Min-Desired-Bandwidth-UL	Unsigned32	†
	MCPTT-Identifier	OctetString	†
	Service-Authorization-Info	Unsigned32	†
	Media-Component-Status	Unsigned32	†
	Priority-Sharing-Indicator	Enumerated	†
	AF-Requested-Data	Unsigned32	†
	Content-Version	Unsigned64	†
	Pre-emption-Control-Info	Unsigned32	†
	The AVP codes from 554 to 599 are reserved for TS 29.209, TS		
	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	1
			1
	SIP-Authorization SIP-Authentication-Context	OctetString OctetString	1
			00 000 [0]
	SIP-Auth-Data-Item	Grouped	29.229 [2]
	SIP-Item-Number	Unsigned32	1
	Server-Assignment-Type	Enumerated	1
	Deregistration-Reason	Grouped	1
	Reason-Code	Enumerated	<u> </u>
	Reason-Info	UTF8String	<u> </u>
	Charging-Information	Grouped	<u> </u>
	Primary-Event-Charging-Function-Name	DiameterURI	1
	Secondary-Event-Charging-Function-Name	DiameterURI	ļ l
	Primary-Charging-Collection-Function-Name	DiameterURI	<u> </u>
	Secondary-Charging-Collection-Function-Name	DiameterURI	<u> </u>
	User-Authorization-Type	Enumerated	<u> </u>
624	User-Data-Already-Available	Enumerated	

	I		1
	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	
627	User-Data-Request-Type	Enumerated	
628	Supported-Features	Grouped	
629	Feature-List-ID	Unsigned32	
630	Feature-List	Unsigned32	
	Supported-Applications	Grouped	<u>-</u>
	Associated-Identities	Grouped	
	Originating-Request	Enumerated	1
			4
	Wildcarded-Public-Identity	UTF8String	<u> </u>
	SIP-Digest-Authenticate	Grouped	1
	Wildcarded-IMPU	UTF8String	
	UAR-Flags	Unsigned32	
638	Loose-Route-Indication	Enumerated	
639	SCSCF-Restoration-Info	Grouped	
640	Path	OctetString	
	Contact	OctetString	1
	Subscription-Info	Grouped	+
	Call-ID-SIP-Header	OctetString	1
			1
	From-SIP-Header	OctetString	_
	To-SIP-Header	OctetString	1
	Record-Route	OctetString	<u> </u>
	Associated-Registered-Identities	Grouped	
648	Multiple-Registration-Indication	Enumerated	
649	Restoration-Info	Grouped	
650	Session-Priority	Enumerated	
	Identity-with-Emergency-Registration	Grouped	1
	Priviledged-Sender-Indication	Enumerated	1
	LIA-Flags	Unsigned32	1
	Initial-CSeq-Sequence-Number	Unsigned32	1
			4
	SAR-Flags	Unsigned32	1
	Allowed-WAF-WWSF-Identities	Grouped	<u></u>
	WebRTC-Authentication-Function-Name	UTF8String	
658	WebRTC-Web-Server-Function-Name	UTF8String	
Note:	The AVP codes from 659 to 699 are reserved for TS 29.229.		
700	User-Identity	Grouped	
	MSISDN	OctetString	1
	User-Data	OctetString	1
	Data-Reference	Enumerated	+
			1
	Service-Indication	OctetString	4
	Subs-Req-Type	Enumerated	1
	Requested-Domain	Enumerated	<u></u>
	Current-Location	Enumerated	
708	Identity-Set	Enumerated	
709	Expiry-Time	Time	
710	Send-Data-Indication	Enumerated	Ī
	DSAI-Tag	OctetString	29.329 [4]
	One-Time-Notification	Enumerated	
	Requested-Nodes	Unsigned32	†
			1
	Serving-Node-Indication	Enumerated	1
	Repository-Data-ID	Grouped	4
	Sequence-Number	Unsigned32	<u> </u>
	Pre-paging-Supported	Enumerated	1
	Local-Time-Zone-Indication	Enumerated	1
	UDR-Flags	Unsigned32	
	Call-Reference-Info	Grouped	1
	Call-Reference-Number	OctetString	†
	AS-Number	OctetString	†
	The AVP codes from 723 to 799 are reserved for TS 29.329.	Octobiling	1
	The AVP codes from 800 to 822 are reserved for TS 32.299.		T
	Event-Type	Grouped	
	SIP-Method	UTF8String	1
825	Event	UTF8String	32.299 [5]
826	Content-Type	UTF8String	
	Content-Length	Unsigned32	

828 C	ontent-Disposition	UTF8String
829 R	ole-of-Node	Enumerated
830 Us	ser-Session-Id	UTF8String
831 Ca	alling-Party-Address	UTF8String
	alled-Party-Address	UTF8String
	me-Stamps	Grouped
834 SI	IP-Request-Timestamp	Time
835 SI	IP-Response-Timestamp	Time
836 Ap	pplication-Server	UTF8String
837 A	pplication-provided-called-party-address	UTF8String
838 In	ter-Operator-Identifier	Grouped
839 O	riginating-IOI	UTF8String
	erminating-IOI	UTF8String
841 IN	/IS-Charging-Identifier	UTF8String
	DP-Session-Description	UTF8String
	DP-Media-Component	Grouped
	DP-Media-Name	UTF8String
	DP-Media-Description	UTF8String
	G-Address	Address
	GSN-Address	Address
	erved-Party-IP-Address	Address
	uthorized-QoS	UTF8String
	pplication-Server-Information	Grouped
	runk-Group-Id	Grouped
	coming-Trunk-Group-Id	UTF8String
853 0	utgoing-Trunk-Group-Id	UTF8String
	earer-Service	OctetString
	ervice-Id	UTF8String
	ssociated-URI	UTF8String
	harged-Party	UTF8String
	oC-Controlling-Address	UTF8String
	oC-Group-Name	UTF8String
860 Ca		Grouped
	ause-Code	Integer32
	ode-Functionality	Enumerated
	ervice-Specific-Data	UTF8String
	riginator	Enumerated
	S-Furnish-Charging-Information	Grouped
	S-Free-Format-Data	OctetString
	S-Append-Free-Format-Data	Enumerated
	me-Quota-Threshold	Unsigned32
	olume-Quota-Threshold	Unsigned32
	rigger-Type	Enumerated
	uota-Holding-Time	Unsigned32
	eporting-Reason	Enumerated
	ervice-Information	Grouped
	S-Information	Grouped
	eserved	-
	IS-Information	Grouped
	MS-Information	Grouped
	CS-Information CS-Information	Grouped
879 Pc	oC-Information	Grouped
	BMS-Information	Grouped
	uota-Consumption-Time	Unsigned32
	edia-Initiator-Flag	Enumerated
	oC-Server-Role	Enumerated
	oC-Session-Type	Enumerated
	umber-Of-Participants	Unsigned32
	riginator-Address	Grouped
	articipants-Involved	UTF8String
888 Ex		Unsigned32
	essage-Body	Grouped
	eserved	-
	eserved	-
	eserved	-
552 111		

002	Reserved	-		
		-		
	Reserved	-		
	Reserved	-		
	Reserved	-		
	Address-Data	UTF8S		
898	Address-Domain	Group	ed	
899	Address-Type	Enumer	ated	
900	TMGI	OctectS	Strina	
	Required-MBMS-Bearer-Capabilities	UTF8S		
	MBMS-StartStop-Indication	Enumer		
	MBMS-Service-Area	OctectS		
	MBMS-Session-Duration			
		Unsigne		
	Alternative-APN	UTF8S		
	MBMS-Service-Type	Enumer		
	MBMS-2G-3G-Indicator	Enumer		
	MBMS-Session-Identity	OctetS		
909	RAI	UTF8S	tring	
910	Additional-MBMS-Trace-Info	OctetS	tring	
911	MBMS-Time-To-Data-Transfer	Unsigne	ed32	
	MBMS-Session-Identity-Repetition-Number	Unsigne		
	MBMS-Required-QoS	UTF8S		
	MBMS-Counting-Information			
		Enumer		
	MBMS-User-Data-Mode-Indication	Enumer		
	MBMS-GGSN-Address	UTF8S		29.061
	MBMS-GGSN-IPv6-Address	UTF8S		[13]
918	MBMS-BMSC-SSM-IP-Address	UTF8S	tring	[10]
919	MBMS-BMSC-SSM-IPv6-Address	UTF8S	tring	
920	MBMS-Flow-Identifier	OctetS	tring	
	CN-IP-Multicast-Distribution	Enumer		
	MBMS-HC-Indicator	Enumer		
	MBMS-Access-Indicator	Enumer		
	MBMS-GW-SSM-IP-Address	OctetS		
	MBMS-GW-SSM-IPv6-Address	OctetS		
	MBMS-BMSC-SSM-UDP-Port	OctetS		
	MBMS-GW-UDP-Port	OctetS		
	MBMS-GW-UDP-Port-Indicator	Enumer	ated	
929	MBMS-Data-Transfer-Start	Unsigne		
930	MBMS-Data-Transfer-Stop	Unsigne	ed64	
931	MBMS-Flags	Unsigne	ed32	
	Restart-Counter	Unsigne		
	Diagnostic-Info	Unsigne		
	MBMS-Cell-List	OctetS		
	The AVP codes from 935 to 999 are reserved for TS 29.061	Colore	unig	
		Enumerated		
	Bearer-Usage	Enumerated		
	Charging-Rule-Install	Grouped		
	Charging-Rule-Remove	Grouped		
	Charging-Rule-Definition	Grouped		
	Charging-Rule-Base-Name	UTF8String		
1005	Charging-Rule-Name	OctetString		
1006	Event-Trigger	Enumerated		
	Metering-Method	Enumerated]	
	Offline	Enumerated	1	
	Online	Enumerated	1	
	Precedence	Unsigned32	29.212 [19]	
	Reporting-Level	Enumerated	23.212[13]	
			-	
	TFT-Filter	IPFilterRule		
	TFT-Packet-Filter-Information	Grouped		
	ToS-Traffic-Class	OctetString		
1016	QoS-Information	Grouped		
1018	Charging-Rule-Report	Grouped		
	PCC-Rule-Status	Enumerated	1	
	Bearer-Identifier	OctetString	1	
	Bearer-Operation	Enumerated	1	
	Access-Network-Charging-Identifier-Gx	Grouped		
1022	phocess-inclinational gillig-luctilillet-GX	l Groupea	I	

1023	Bearer-Control-Mode	Enumerated	
1024	Network-Request-Support	Enumerated	
	Guaranteed-Bitrate-DL	Unsigned32	
	Guaranteed-Bitrate-UL	Unsigned32	
	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	
	Allocation-Retention-Priority	Grouped	
	CoA-IP-Address	Address	
	Tunnel-Header-Filter	IPFilterRule	
	Tunnel-Header-Length	Unsigned32	
	Tunnel-Information	Grouped	
	CoA-Information	Grouped	
	APN-Aggregate-Max-Bitrate-DL	Unsigned32	
	APN-Aggregate-Max-Bitrate-UL	Unsigned32	
	Revalidation-Time	Time	
	Rule-Activation-Time	Time	
	Rule-DeActivation-Time	Time	
	Session-Release-Cause	Enumerated	
	Priority-Level	Unsigned32	
	Pre-emption-Capability	Enumerated	
1047	Pre-emption-Capability 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	Enumerated	
	Resource-Allocation-Notification	Enumerated	
	Session-Linking-Indicator	Enumerated	
	PDN-Connection-ID	OctetString	
	Monitoring-Key	OctetString	
	Usage-Monitoring-Information	Grouped	
	Usage-Monitoring-Level	Enumerated	
	Usage-Monitoring-Report	Enumerated	
	Usage-Monitoring-Support	Enumerated	
	CSG-Information-Reporting	Enumerated	
	Packet-Filter-Usage	Enumerated	
	Charging-Correlation-Indicator	Enumerated	
	QoS-Rule-Base-Name	UTF8String	
1075	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	
	Credit-Management-Status	Unsigned32	
	Redirect-Information	Grouped	
	Redirect- Support	Enumerated	
	TDF-Information	Grouped	
	TDF-Application-Identifier	OctetString	
	TDF-Destination-Host	DiameterIdentity	

1090 TDF-Destination-Realm	DiameterIdentity	
1091 TDF-IP-address	Address	
1092 ADC-Rule-Install	Grouped	
1093 ADC-Rule-Remove	Grouped	
1094 ADC-Rule-Definition	Grouped	
1095 ADC-Rule-Base-Name	UTF8String	
1096 ADC-Rule-Name	OctetString	
1097 ADC-Rule-Report	Grouped	
1098 Application-Detection-Information	Grouped	
1099 PS-to-CS-Session-Continuity	Enumerated	
Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212	0	
1100 Served-User-Identity	Groupe	
1101 VASP-ID	UTF8Str	
1102 VAS-ID	UTF8String	
1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address	Grouped	
1106 Result-Recipient-Address	Grouped	
1107 Sequence-Number 1108 Recipient-Address	Unsigned32 UTF8String	
1109 Recipient-Address 1109 Routeing-Address	UTF8String UTF8String	29.140 [16]
1110 Originating-Interface	Enumerated	23.140 [10]
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key	UTF8String	
1115 Billing-Information	UTF8String	
1116 Status	Grouped	
1117 Status-Code	UTF8String	
1118 Status-Text	UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	o ir odding	
1200 Domain-Name	UTF8String	
1201 Recipient-Address	Grouped	
1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size	Unsigned32	
1207 Additional-Content-Information	Grouped	
1208 Addressee-Type	Enumerated	
1209 Priority	Enumerated	
1210 Message-ID	UTF8String	
1211 Message-Type	Enumerated	
1212 Message-Size	Unsigned32	
1213 Message-Class	Grouped	
1214 Class-Identifier	Enumerated	
1215 Token-Text	UTF8String	
1216 Delivery-Report-Requested	Enumerated	32.299 [5]
1217 Adaptations	Enumerated	JZ.Z33 [J]
1218 Applic-ID	UTF8String	
1219 Aux-Applic-Info	UTF8String	
1220 Content-Class	Enumerated	
1221 DRM-Content	Enumerated	
1222 Read-Reply-Report-Requested	Enumerated	
1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID	Enumerated UTF8String	
1222 Read-Reply-Report-Requested1223 Reply-Applic-ID1224 File-Repair-Supported	Enumerated UTF8String Enumerated	
 1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1224 File-Repair-Supported 1225 MBMS-User-Service-Type 	Enumerated UTF8String Enumerated Enumerated	
1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1224 File-Repair-Supported 1225 MBMS-User-Service-Type 1226 Unit-Quota-Threshold	Enumerated UTF8String Enumerated Enumerated Unsigned32	
1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1224 File-Repair-Supported 1225 MBMS-User-Service-Type 1226 Unit-Quota-Threshold 1227 PDP-Address	Enumerated UTF8String Enumerated Enumerated Unsigned32 Address	
1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1224 File-Repair-Supported 1225 MBMS-User-Service-Type 1226 Unit-Quota-Threshold 1227 PDP-Address 1228 SGSN-Address	Enumerated UTF8String Enumerated Enumerated Unsigned32 Address Address	
1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1224 File-Repair-Supported 1225 MBMS-User-Service-Type 1226 Unit-Quota-Threshold 1227 PDP-Address 1228 SGSN-Address 1229 PoC-Session-Id	Enumerated UTF8String Enumerated Enumerated Unsigned32 Address Address UTF8String	
1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1224 File-Repair-Supported 1225 MBMS-User-Service-Type 1226 Unit-Quota-Threshold 1227 PDP-Address 1228 SGSN-Address 1229 PoC-Session-Id 1230 Deferred-Location-Even-Type	Enumerated UTF8String Enumerated Enumerated Unsigned32 Address Address UTF8String UTF8String	
1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1224 File-Repair-Supported 1225 MBMS-User-Service-Type 1226 Unit-Quota-Threshold 1227 PDP-Address 1228 SGSN-Address 1229 PoC-Session-Id 1230 Deferred-Location-Even-Type 1231 LCS-APN	Enumerated UTF8String Enumerated Enumerated Unsigned32 Address Address UTF8String UTF8String UTF8String	
1222 Read-Reply-Report-Requested 1223 Reply-Applic-ID 1224 File-Repair-Supported 1225 MBMS-User-Service-Type 1226 Unit-Quota-Threshold 1227 PDP-Address 1228 SGSN-Address 1229 PoC-Session-Id 1230 Deferred-Location-Even-Type	Enumerated UTF8String Enumerated Enumerated Unsigned32 Address Address UTF8String UTF8String	

	LCS-Client-External-ID	UTF8String	
	LCS-Client-Name	Grouped	
1236	LCS-Data-Coding-Scheme	UTF8String	
	LCS-Format-Indicator	Enumerated	
1238	LCS-Name-String	UTF8String	
1239	LCS-Requestor-Id	Grouped	
1240	LCS-Requestor-Id-String	UTF8String	
	LCS-Client-Type	Enumerated	
	Location-Estimate	OctetString	
	Location-Estimate-Type	Enumerated	
	Location-Type	Grouped	
	Positioning-Data	UTF8String	
	Reserved	-	
	PDP-Context-Type	Enumerated	
	MMBox-Storage-Requested	Enumerated	
	Service-Specific-Info	Grouped	
	Called-Asserted-Identity	UTF8String	
1251	Requested-Party-Address	UTF8String	
	PoC-User-Role	Grouped	
	PoC-User-Role-IDs	UTF8String	
	PoC-User-Role-info-Units	Enumerated	
	Talk-Burst-Exchange	Grouped	
	Service-Generic-Information	Grouped	
	Service-Specific-Type	Unsigned32	
	Event-Charging-TimeStamp	Time	
1259	Participant-Access-Priority	Enumerated	
1260	Participant-Group	Grouped	
1261	PoC-Change-Conditions	Enumerated	
1262	PoC-Change-Time	Time	
1263	Access-Network-Information	OctetString	
	Trigger	Grouped	
	Base-Time-Interval	Unsigned32	
	Envelope	Grouped	
	Envelope-End-Time	Time	
	Envelope-Reporting	Enumerated	
	Envelope-Start-Time	Time	
	Time-Quota-Mechanism	Grouped	
	Time-Quota-Type	Enumerated	
	Early-Media-Description	Grouped	
	SDP-TimeStamps	Grouped	
	SDP-Offer-Timestamp	Time	
	SDP-Answer-Timestamp	Time	
	AF-Correlation-Information	Grouped	
	PoC-Session-Initiation-type	Enumerated	
	Offline-Charging		
	User-Participating-Type	Grouped	
		Enumerated	
	Alternate-Charged-Party-Address	UTF8String	
	IMS-Communication-Service-Identifier	UTF8String	
	Number-Of-Received-Talk-Bursts	Unsigned32	
	Number-Of-Talk-Bursts	Unsigned32	
	Received-Talk-Burst-Time	Unsigned32	
	Received-Talk-Burst-Volume	Unsigned32	
	Talk-Burst-Time	Unsigned32	
	Talk-Burst-Volume	Unsigned32	
	Media-Initiator-Party	UTF8String	
	The AVP codes from 1289 to 1399 are reserved for TS 32.299		
	Subscription-Data	Grouped	
1401	Terminal-Information	Grouped	
1402	IMEI	UTF8String	
	Software-Version	UTF8String	
	QoS-Subscribed	UTF8String	29.272 [21]
	ULR-Flags	Unsigned32	
	ULA-Flags	Unsigned32	
	Visited PLMN Id	OctetString	
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446Regional-Subscription-Zone-CodeOctetString447RANDOctetString448XRESOctetString449AUTNOctetString450KASMEOctetString451Reserved-452Trace-Collection-EntityAddress453KcOctetString454SRESOctetString455Reserved-456PDN-TypeEnumerated457Roaming-Restricted-Due-To-Unsupported-FeatureEnumerated458Trace-DataGrouped459Trace-ReferenceOctetString460Reserved-461Reserved-462Trace-DepthEnumerated463Trace-NE-Type-ListOctetString464Trace-Interface-ListOctetString
447 RAND OctetString 448 XRES OctetString 449 AUTN OctetString 450 KASME OctetString 451 Reserved - 452 Trace-Collection-Entity Address 453 Kc OctetString 454 SRES OctetString 455 Reserved - 456 PDN-Type Enumerated 457 Roaming-Restricted-Due-To-Unsupported-Feature Enumerated 458 Trace-Data Grouped 459 Trace-Reference OctetString 460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
448 XRES OctetString 449 AUTN OctetString 450 KASME OctetString 451 Reserved - 452 Trace-Collection-Entity Address 453 Kc OctetString 454 SRES OctetString 455 Reserved - 456 PDN-Type Enumerated 457 Roaming-Restricted-Due-To-Unsupported-Feature Enumerated 458 Trace-Data Grouped 459 Trace-Reference OctetString 460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
449 AUTN OctetString 450 KASME OctetString 451 Reserved - 452 Trace-Collection-Entity Address 453 Kc OctetString 454 SRES OctetString 455 Reserved - 456 PDN-Type Enumerated 457 Roaming-Restricted-Due-To-Unsupported-Feature Enumerated 458 Trace-Data Grouped 459 Trace-Reference OctetString 460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
450 KASME OctetString 451 Reserved - 452 Trace-Collection-Entity Address 453 Kc OctetString 454 SRES OctetString 455 Reserved - 456 PDN-Type Enumerated 457 Roaming-Restricted-Due-To-Unsupported-Feature Enumerated 458 Trace-Data Grouped 459 Trace-Reference OctetString 460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
451 Reserved - 452 Trace-Collection-Entity Address 453 Kc OctetString 454 SRES OctetString 455 Reserved - 456 PDN-Type Enumerated 457 Roaming-Restricted-Due-To-Unsupported-Feature Enumerated 458 Trace-Data Grouped 459 Trace-Reference OctetString 460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
452 Trace-Collection-Entity Address 453 Kc OctetString 454 SRES OctetString 455 Reserved - 456 PDN-Type Enumerated 457 Roaming-Restricted-Due-To-Unsupported-Feature Enumerated 458 Trace-Data Grouped 459 Trace-Reference OctetString 460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
453 Kc OctetString 454 SRES OctetString 455 Reserved - 456 PDN-Type Enumerated 457 Roaming-Restricted-Due-To-Unsupported-Feature Enumerated 458 Trace-Data Grouped 459 Trace-Reference OctetString 460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
453 Kc OctetString 454 SRES OctetString 455 Reserved - 456 PDN-Type Enumerated 457 Roaming-Restricted-Due-To-Unsupported-Feature Enumerated 458 Trace-Data Grouped 459 Trace-Reference OctetString 460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
454 SRES OctetString 455 Reserved - 456 PDN-Type Enumerated 457 Roaming-Restricted-Due-To-Unsupported-Feature Enumerated 458 Trace-Data Grouped 459 Trace-Reference OctetString 460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
455 Reserved - 456 PDN-Type Enumerated 457 Roaming-Restricted-Due-To-Unsupported-Feature Enumerated 458 Trace-Data Grouped 459 Trace-Reference OctetString 460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
456 PDN-Type Enumerated 457 Roaming-Restricted-Due-To-Unsupported-Feature Enumerated 458 Trace-Data Grouped 459 Trace-Reference OctetString 460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
457 Roaming-Restricted-Due-To-Unsupported-Feature Enumerated 458 Trace-Data Grouped 459 Trace-Reference OctetString 460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
458 Trace-Data Grouped 459 Trace-Reference OctetString 460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
459 Trace-Reference OctetString 460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
460 Reserved - 461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
461 Reserved - 462 Trace-Depth Enumerated 463 Trace-NE-Type-List OctetString 464 Trace-Interface-List OctetString
462Trace-DepthEnumerated463Trace-NE-Type-ListOctetString464Trace-Interface-ListOctetString
463 Trace-NE-Type-ListOctetString464 Trace-Interface-ListOctetString
464 Trace-Interface-List OctetString
466 OMC-Id OctetString
467 GPRS-Subscription-Data Grouped
468 Complete-Data-List-Included-Indicator Enumerated
469 PDP-Context Grouped
470 PDP-Type OctetString
471 3GPP2-MEID OctetString
472 Specific-APN-Info Grouped
473 LCS-Info Grouped

4 474 OMLO Niumbor	O at at Cturina m		
1474 GMLC-Number	OctetString	-	
1475 LCS-PrivacyException	Grouped		
1476 SS-Code	OctetString		
1477 SS-Status	OctetString	1	
1478 Notification-To-UE-User	Enumerated		
1479 External-Client	Grouped		
1480 Client-Identity	OctetString		
1481 GMLC-Restriction	Enumerated		
1482 PLMN-Client	Enumerated		
1483 Service-Type	Grouped		
1484 ServiceTypeIdentity	Unsigned32		
1485 MO-LR	Grouped		
1486 Teleservice-List	Grouped	1	
1487 TS-Code	Enumerated	1	
1488 Call-Barring-Info	Grouped	1	
1489 SGSN-Number	OctetString	1	
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	<u> </u>	
1495 EPS-User-State	Grouped]	
1496 EPS-Location-Information	Grouped]	
1497 MME-User-State	Grouped]	
1498 SGSN-User-State	Grouped]	
1499 User-State	Enumerated]	
	•		
1500 Non-3GPP-User-Data	Grouped		
1501 Non-3GPP-IP-Access	Enumerated	1	
1502 Non-3GPP-IP-Access-APN	Enumerated	1	
1503 AN-Trusted	Enumerated	1	
1504 ANID	UTF8String	-	
1505 Trace-Info		-	
	Grouped	-	
1506 MIP-FA-RK	OctetString	-	
1507 MIP-FA-RK-SPI	Unsigned32		
1508 PPR-Flags	Unsigned32		
1509 WLAN-Identifier	Grouped		
1510 TWAN-Access-Info	Grouped		
1511 Access-Authorization-Flags	Unsigned32		
1512 TWAN-Default-APN-Context-Id	Unsigned32		
1513 Reserved	-		
1514 Reserved	-	00 070 [00]	
1515 Reserved	-	29.273 [20]	
1516 Full-Network-Name	OctetString	1	
1517 Short-Network-Name	OctetString	1	
1518 AAA-Failure-Indication	Unsigned32	1	
1519 Transport-Access-Type	Enumerated	1	
1520 DER-Flags	Unsigned32		
1521 DEA-Flags		1	
	Unsigned32		
1522 RAR-Flags	Unsigned32		
1523 DER-S6b-Flags	Unsigned32		
1524 SSID	UTF8String	<u> </u>	
1525 HESSID	UTF8String]	
1526 Access-Network-Info	Grouped]	
1527 TWAN-Connection-Mode	Unsigned32]	
1528 TWAN-Connectivity-Parameters	Grouped]	
1529 Connectivity-Flags	Unsigned32		
1530 TWAN-PCO	OctetS	tring	
1531 TWAG-CP-Address	Addre		
T153ZTTWAG-UP-Address	LITERS		
1532 TWAG-UP-Address 1533 TWAN-S2a-Failure-Cause	UTF8S		
1533 TWAN-S2a-Failure-Cause	Unsigne	ed32	
1533 TWAN-S2a-Failure-Cause 1534 SM-Back-Off-Timer	Unsigne Unsigne	ed32 ed32	
1533 TWAN-S2a-Failure-Cause 1534 SM-Back-Off-Timer 1535 WLCP-Key	Unsigne Unsigne OctetS	ed32 ed32 tring	
1533 TWAN-S2a-Failure-Cause 1534 SM-Back-Off-Timer	Unsigne Unsigne	ed32 ed32 tring dentity	

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1537 Maximum-Wait-Time	Unsigned32	+
1538 Emergency-Services	Unsigned32 Unsigned32	4
1539 AAR-Flags 1540 IMEI-Check-In-VPLMN-Result	Unsigned32	4
1541 ERP-Authorization	Unsigned32	-
Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.27		
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3		GPP TS
29.273 from Rel-12.	of 1 10 25.254 and is now defined in c	011 10
1600 MME-Location-Information	Grouped	
1601 SGSN-Location-Information	Grouped	1
1602 E-UTRAN-Cell-Global-Identity	OctetString	7
1603 Tracking-Area-Identity	OctetString	
1604 Cell-Global-Identity	OctetString	
1605 Routing-Area-Identity	OctetString	
1606 Location-Area-Identity	OctetString	
1607 Service-Area-Identity	OctetString	
1608 Geographical-Information	OctetString	
1609 Geodetic-Information	OctetString	4
1610 Current-Location-Retrieved	Enumerated	_
1611 Age-Of-Location-Information	Unsigned32	4
1612 Active-APN	Grouped	+
1613 SIPTO-Permission	Enumerated Enumerated	4
1614 Error-Diagnostic		_
1615 UE-SRVCC-Capability 1616 MPS-Priority	Enumerated Unsigned32	+
1617 VPLMN-LIPA-Allowed	Enumerated	_
1618 LIPA-Permission	Enumerated	+
1619 Subscribed-Periodic-RAU-TAU-Timer	Unsigned32	+
1620 Ext-PDP-Type	OctetString	7
1621 Ext-PDP-Address	Address	7
1622 MDT-Configuration	Grouped	1
1623 Job-Type	Enumerated	7
1624 Area-Scope	Grouped	
1625 List-Of-Measurements	Unsigned32	
1626 Reporting-Trigger	Unsigned32	
1627 Report-Interval	Enumerated	29.272
1628 Report-Amount	Enumerated	[21]
1629 Event-ThresholdRSRP	Unsigned32	_ []
1630 Event-ThresholdRSRQ	Unsigned32	4
1631 Logging-Interval	Enumerated	_
1632 Logging-Duration	Enumerated	4
1633 Relay-Node-Indicator	Enumerated	+
1634 MDT-User-Consent	Enumerated	+
1635 PUR-Flags 1636 Subscribed-VSRVCC	Unsigned32 Enumerated	-
1637 Equivalent-PLMN-List	Grouped	+
1638 CLR-Flags	Unsigned32	+
1639 UVR-Flags	Unsigned32	+
1640 UVA-Flags	Unsigned32	+
1641 VPLMN-CSG-Subscription-Data	Grouped	+
1642 Time-Zone	UTF8String	+
1643 A-MSISDN	OctetString	7
1644 Reserved	-	7
1645 MME-Number-for-MT-SMS	OctetString	†
1646 Reserved	-	7
1647 Reserved	-	
1648 SMS-Register-Request	Enumerated	
1649 Local-Time-Zone	Grouped	
1650 Daylight-Saving-Time	Enumerated	
1651 GMLC-Info	Grouped	
1652 GMLC-Name	DiameterIdentity	
1653 GMLC-Realm	DiameterIdentity	
1654 Subscription-Data-Flags	Unsigned32	
1655 Measurement-Period-LTE	Enumerated	_
1656 Measurement-Period-UMTS	Enumerated	

_		_	1
	Collection-Period-RRM-LTE	Enumerated	
	Collection-Period-RRM-UMTS	Enumerated	
	Positioning-Method	OctetString	
	Measurement-Quantity	OctetString	
	Event-Threshold-Event-1F	Integer32	
	Event-Threshold-Event-1I	Integer32	
	Restoration-Priority	Unsigned32	
	SGs-MME-Identity	UTF8String	
	SIPTO-Local-Network-Permission	Unsigned32	
	Coupled-Node-Diameter-ID WLAN-offloadability	DiameterIdentity Grouped	-
	WLAN-offloadability-EUTRAN	Unsigned32	ł l
	WLAN-offloadability-UTRAN	Unsigned32	
	Reset-ID	OctetString	
	MDT-Allowed-PLMN-Id	OctetString	
	Adjacent-PLMNs	Grouped	
	Adjacent-Access-Restriction-Data	Grouped	†
	DL-Buffering-Suggested-Packet-Count	Integer32	
	IMSI-Group-Id	Grouped	
	Group-Service-Id	Unsigned32	
	Group-PLMN-Id	OctetString	
	Local-Group-Id	OctetString	
	AIR-Flags	Unsigned32	
	UE-Usage-Type	Unsigned32	
	Non-IP-PDN-Type-Indicator	Enumerated	
1682	Non-IP-Data-Delivery-Mechanism	Unsigned32	
	Additional-Context-Identifier	Unsigned32	
	SCEF-Realm	DiameterIdentity	
	Subscription-Data-Deletion	Grouped	
	Preferred-Data-Mode	Unsigned32	
	Emergency-Info	Grouped	
	V2X-Subscription-Data	Grouped	
	V2X-Permission	Unsigned32	
	PDN-Connection-Continuity	Unsigned32	
	eDRX-Cycle-Length eDRX-Cycle-Length-Value	Grouped	
	UE-PC5-AMBR	OctetString Unsigned32	
	MBSFN-Area	Grouped	
	MBSFN-Area-ID	Unsigned32	
	Carrier-Frequency	Unsigned32	
	RDS-Indicator	Enumerated	
	The AVP codes from 1698 to 1699 are reserved for TS 29.272.	Enamorated	
	SMS-Information	Grouped	
	Data-Coding-Scheme	Integer32	
	Destination-Interface	Grouped	
	Interface-Id	UTF8String	
2004	Interface-Port	UTF8String	
2005	Interface-Text	UTF8String	
	Interface-Type	Enumerated]
	SM-Message-Type	Enumerated	
	Originating-SCCP-Address	Address	
	Originator-Interface	Grouped	
	Recipient-SCCP-Address	Address	
	Reply-Path-Requested	Enumerated	32.299 [5]
	SM-Discharge-Time	Time	
	SM-Protocol-ID	OctetString	
	SM-Status	OctetString	
	SM-User-Data-Header	OctetString	
	SMS-Node	Enumerated	
	SMSC-Address Client-Address	Address Address	
	Number-of-Messages-Sent	Unsigned32	
	Low-Balance-Indication	Enumerated	
	Remaining-Balance	Grouped	
	Refund-Information	OctetString	
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	Carrier-Select-Routing-Information	UTF8String	
	Number-Portability-Routing-Information	UTF8String	
	PoC-Event-Type	Enumerated	
	Recipient-Info	Grouped	
	Originator-Received-Address	Grouped	
	Recipient-Received-Address	Grouped	
	SM-Service-Type	Enumerated	
	MMTel-Information	Grouped	
	MMTel-Sservice-Type	Unsigned32	
	Service-Mode	Unsigned32	
	Subscriber-Role	Enumerated	
	Number-Of-Diversions	Unsigned32	
	Associated-Party-Address	UTF8String	
	SDP-Type	Enumerated	
	Change-Condition	Integer32	
	Change-Time	Time	
	Diagnostics	Integer32	
	Service-Data-Container	Grouped	
	Start-Time Stop-Time	Time Time	
	Time-First-Usage	Time	
	Time-Last-Usage	Time	
	Time-Usage Traffic-Data-Volumes	Unsigned32	
	Serving-Node-Type	Grouped Enumerated	
	Supplementary-Service		-
		Grouped	ł l
	Participant-Action-Type	Enumerated	
	PDN-Connection-Charging-ID	Unsigned32	-
	Dynamic-Address-Flag Accumulated-Cost	Enumerated	-
	Accumulated-Cost AoC-Cost-Information	Grouped Grouped	
	AoC-Information	Grouped	ł l
	AoC-Request-Type	Enumerated	ł l
	Current-Tariff	Grouped	
	Next-Tariff	Grouped	
	Rate-Element	Grouped	
	Scale-Factor	Grouped	
	Tariff-Information	Grouped	
	Unit-Cost	Grouped	
	Incremental-Cost	Grouped	
	Local-Sequence-Number	Unsigned32	
	Node-Id	UTF8String	
	SGW-Change	Enumerated	
	Charging-Characteristic-Selection-Mode	Enumerated	
	SGW-Address	Address	
	Dynamic-Address-Flag-Extension	Enumerated	
	The AVP codes from 2069 to 2099 are reserved for TS 32.299.		ı
	reserved	-	
	Application-Server-ID	UTF8String	
	Application-Service-Type	Enumerated	
	Application-Session-ID	Unsigned32	
	Delivery-Status	UTF8String	
	reserved		
	reserved	-	32.299 [5]
	IM-Information	Grouped	
	Number-Of-Messages-Successfully-Exploded	Unsigned32	
	Number-Of-Messages-Successfully-Sent	Unsigned32	
	Total-Number-Of-Messages-Exploded	Unsigned32	
	Total-Number-Of-Messages-Sent	Unsigned32	
	DCD-Information	Grouped	
	Content-ID	UTF8String	
	Content-provider-ID	UTF8String	
		3 3 3 y	î .

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2118 Charge-Reason-Code	Enumerated	
Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299.		T
2200 Subsession-Decision-Info	Grouped	
2201 Subsession-Enforcement-Info	Grouped	
2202 Subsession-Id	Unsigned32	
2203 Subsession-Operation	Enumerated	29.215
2204 Multiple-BBERF-Action	Enumerated	[22]
2205 UE-Local-IPv6-Prefix	OctetString	رككا
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.		•
2300 reserved	-	
2301 SIP-Request-Timestamp-Fraction	Unsigned32	
2302 SIP-Response-Timestamp-Fraction	Unsigned32	
2303 Online-Charging-Flag	Enumerated	
2304 CUG-Information	OctetString	
2305 Real-Time-Tariff-Information	Grouped	
2306 Tariff-XML	UTF8String	
2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
		
2309 Account-Expiration	Time	
2310 AoC-Format	Enumerated	
2311 AoC-Service	Enumerated	32.299 [5]
2312 AoC-Service-Obligatory-Type	Grouped	
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	-	
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator	Enumerated	
2323 MBMS-Charged-Party	Enumerated	
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.		<u> </u>
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets	Unsigned32	
2405 GMLC-Address	Address	29.173
2406 Additional-Serving-Node	Grouped	[25]
2407 PPR-Address	Address	[20]
2408 MME-Realm	DiameterIdentity	-
2409 SGSN-Name	DiameterIdentity	-
2410 SGSN-Realm	DiameterIdentity	-
2411 RIA-Flags	Unsigned32	
Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173.	Unsignedsz	
2500 SLg-Location-Type	Enumerated	T
	Enumerated	
2501 LCS-EPS-Client-Name	Grouped	
2502 LCS-Requestor-Name	Grouped	
2503 LCS-Priority	Unsigned32	
2504 LCS-QoS	Grouped	
2505 Horizontal-Accuracy	Unsigned32	
2506 Vertical-Accuracy	Unsigned32	29.172
2507 Vertical-Requested	Enumerated	[24]
2508 Velocity-Requested	Enumerated	
2509 Response-Time	Enumerated	
2510 Supported-GAD-Shapes	Unsigned32	
2511 LCS-Codeword	UTF8String	
2512 LCS-Privacy-Check	Enumerated	
2513 Accuracy-Fulfilment-Indicator	Enumerated	
2514 Age-Of-Location-Estimate	Unsigned32	
	-	

2515 Velocity-Estimate	OctetString
2516 EUTRAN-Positioning-Data	OctetString
2517 ECGI	OctetString
2518 Location-Event	Enumerated
2519 Pseudonym-Indicator	Enumerated
2520 LCS-Service-Type-ID	Unsigned32
2521 LCS-Privacy-Check-Non-Session	Grouped
2522 LCS-Privacy-Check-Session	Grouped
2523 LCS-QoS-Class	Enumerated
2524 GERAN-Positioning-Info	Grouped
2525 GERAN-Positioning-Data	OctetString
2526 GERAN-GANSS-Positioning-Data	OctetString
2527 UTRAN-Positioning-Info	Grouped
2528 UTRAN-Positioning-Data	OctetString
2529 UTRAN-GANSS-Positioning-Data	OctetString
2530 LRR-Flags	Unsigned32
2531 LCS-Reference-Number	OctetString
2532 Deferred-Location-Type	Unsigned32
2533 Area-Event-Info	Grouped
2534 Area-Definition	Grouped
2535 Area	Grouped
2536 Area-Type	Unsigned32
2537 Area-Identification	Grouped
2538 Occurrence-Info	Enumerated
2539 Interval-Time	Unsigned32
2540 Periodic-LDR-Information	Grouped
2541 Reporting-Amount	Unsigned32
2542 Reporting-Interval	Unsigned32
2543 Reporting-PLMN-List	Grouped
2544 PLMN-ID-List	Grouped
2545 PLR-Flags	Unsigned32
2546 PLA-Flags	Unsigned32
2547 Deferred-MT-LR-Data	Grouped
2548 Termination-Cause	Unsigned32
2549 LRA-Flags	Unsigned32
2550 Periodic-Location-Support-Indicator	Enumerated
2551 Prioritized-List-Indicator	Enumerated
2552 ESMLC-Cell-Info	Grouped
2553 Cell-Portion-ID	Unsigned32
2554 1xRTT-RCID	OctetString
2555 Delayed-Location-Reporting-Data	Grouped
2556 Civic-Address	UTF8String
2557 Barometric-Pressure	Unsigned32
2558 UTRAN-Additional-Positioning-Data	OctetString
2559 Motion-Event-Info	Grouped
2560 Linear-Distance	Unsigned32
2561 Maximum-Interval	Unsigned32
2562 Sampling-Interval	Unsigned32
	Unsigned32
2563 Reporting Location Requirements	
2564 Reporting-Location-Requirements	Unsigned32
2565 Additional-Area	Grouped
Note: The AVP codes from 2566 to 2599 are rese	rved for TS 29.172.
2600 reserved	-
2601 IMS-Application-Reference-Identifier	UTF8String
2602 Low-Priority-Indicator	Enumerated
2603 IP-Realm-Default-Indicator	Enumerated 32.299
2604 Local-GW-Inserted-Indicator	Enumerated
2605 Transcoder-Inserted-Indicator	Enumerated
2606 PDP-Address-Prefix-Length	Unsigned32
Note: The AVP codes from 2607 to 2699 are rese	
2700 Reserved	
2701 Transit-IOI-List	- I
	- UTF8String
	UTF8String Fnumerated 32 299
2702 Status-AS-Code	Enumerated 32.299

2705 Neighbour-Node-Address	Address	_
2706 Relationship-Mode	Enumerated	
2707 Session-Direction	Enumerated	
2708 From-Address	UTF8String	_
2709 Access-Transfer-Information	Grouped	
2710 Access-Transfer-Type	Enumerated	
2711 Related-IMS-Charging-Identifier	UTF8String	
2712 Related-IMS-Charging-Identifier-Node	Address	
2713 IMS-Visited-Network-Identifier	UTF8String	7
2714 TWAN-User-Location-Info	Grouped	7
2715 Reserved	-	7
2716 BSSID	UTF8String	†
2717 TAD-Identifier	Enumerated	┪
Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299.	Enumerated	
2800 Reserved		
2801 ADC-Revalidation-Time	Time	+
	Time	4
2802 TDF-Application-Instance-Identifier	OctetString	4
2803 HeNB-BBF-FQDN	UTF8String	4
2804 HeNB-Local-IP-Address	Address	_
2805 UE-Local-IP-Address	Address	4
2806 UDP-Source-Port	Unsigned32	_
2807 CS-Service-Qos-Request-Identifier	OctetString	_
2808 CS-Service-QoS-Request-Operation	Enumerated	
2809 Mute-Notification	Enumerated	
2810 Monitoring-Time	Time	
2811 AN-GW-Status	Enumerated	7
2812 User-Location-Info-Time	Grouped	7
2813 CS-Service-Resource-Report	Time	7
2814 CS-Service-Resource-Failure-Cause	Enumerated	
2815 CS-Service-Resource-Result-Operation	Enumerated	†
2816 Default-QoS-Information	Grouped	+
		4
2817 Default-QoS-Name	UTF8String	4
2818 Conditional-APN-Aggregate-Max-Bitrate	Grouped	4
2819 RAN-NAS-Release-Cause	OctetString	4
2820 Presence-Reporting-Area-Elements-List	OctetString	↓
2821 Presence-Reporting-Area-Identifier	OctetString	
2822 Presence-Reporting-Area-Information	Grouped	
2823 Presence-Reporting-Area-Status	Unsigned32	29.212
2824 NetLoc-Access-Support	Unsigned32	[19]
2825 Fixed-User-Location-Info	Grouped	
2826 PCSCF-Restoration-Indication	Unsigned32	
2827 IP-CAN-Session-Charging-Scope	Enumerated	7
2828 Monitoring-Flags	Unsigned32	7
2829 Default-Access	Enumerated	7
2830 NBIFOM-Mode	Enumerated	7
2831 NBIFOM-Support	Enumerated	7
2832 RAN-Rule-Support	Unsigned32	†
2833 Access-Availability-Change-Reason	Unsigned32	+
2834 Routing-Rule-Failure-Code	Unsigned32	+
2835 Routing-Rule-Report		+
	Grouped	+
2836 Traffic-Steering-Policy-Identifier-DL	OctetString	+
2837 Traffic-Steering-Policy-Identifier-UL	OctetString	4
2838 Request-Type	Unsigned32	4
2839 Execution-Time	Time	4
2840 Conditional-Policy-Information	Grouped	
2841 Resource-Release-Notification	Enumerated	
2842 Removal-Of-Access	Enumerated	
2843 TCP-Source-Port	Unsigned32	
2844 Default-Bearer-Indication	Enumerated	
2845 PRA-Install	Grouped	
2846 PRA-Remove	Grouped	Ī
2847 3GPP-PS-Data-Off-Status	Enumerated	1
Note: The AVP codes from 2848 to 2899 are reserved for TS 29.212.		1
12900 freserved	-	29 219
2900 reserved 2901 Policy-Counter-Identifier	- Grouped	29.219 [26]

2002 Policy Countar Status	UTF8String	
2902 Policy-Counter-Status 2903 Policy-Counter-Status-Report	Grouped	
2904 SL-Request-Type	Enumerated	
2905 Pending-Policy-Counter-Information	Grouped	
2906 Pending-Policy-Counter-Change-Time	Time	
Note: The AVP codes from 2907 to 2999 are reserved for TS 29.219		
3000 reserved	-	
3001 Device-Action	Grouped	
3002 Device-Notification	Grouped	
3003 Trigger-Data	Grouped	
3004 Payload	OctetString	
3005 Action-Type	Enumerated	29.368
3006 Priority-Indication	Enumerated	[27]
3007 Reference-Number	Unsigned32	[27]
3008 Request-Status	Enumerated	
3009 Delivery-Outcome	Enumerated	
3010 Application-Port-Identifier	Unsigned32	
3011 Old-Reference-Number	Unsigned32	
3012 Feature-Supported-In-Final-Target	Unsigned32	
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368		
3100 IP-SM-GW-Number	OctetString	
3101 IP-SM-GW-Name	DiameterIdentity	
3102 User-Identifier	Grouped	
3103 Service-ID	Enumerated Octot String	
3104 SCS-Identity 3105 Service-Parameters	OctetString Grouped	
3106 T4-Parameters	Grouped	
3107 Service-Data	Grouped	
3108 T4-Data	Grouped	
3109 HSS-Cause	Unsigned32	
3110 SIR-Flags	Unsigned32	
3111 External-Identifier	UTF8String	
3112 IP-SM-GW-Realm	DiameterIdentity	
3113 AESE-Communication-Pattern	Grouped	
3114 Communication-Pattern-Set	Grouped	
3115 Periodic-Communication-Indicator	Unsigned32	
3116 Communication-Duration-Time	Unsigned32	
3117 Periodic-Time	Unsigned32	
3118 Scheduled-Communication-Time	Grouped	
3119 Stationary-Indication	Unsigned32	
3120 AESE-Communication-Pattern-Config-Status	Grouped	
3121 AESE-Error-Report	Grouped	29.336
3122 Monitoring-Event-Configuration	Grouped	[28]
3123 Monitoring-Event-Report	Grouped	[20]
3124 SCEF-Reference-ID	Unsigned32	
3125 SCEF-ID	DiameterIdentity	
3126 SCEF-Reference-ID-for-Deletion	Unsigned32	
3127 Monitoring-Type	Unsigned32	
3128 Maximum-Number-of-Reports	Unsigned32	
3129 UE-Reachability-Configuration	Grouped	
3130 Monitoring-Duration	Time	
3131 Maximum-Detection-Time	Unsigned32	
3132 Reachability-Type 3133 Maximum-Latency	Unsigned32 Unsigned32	-
3134 Maximum-Response-Time	Unsigned32	-
3135 Location-Information-Configuration	Grouped	
3136 MONTE-Location-Type	Unsigned32	-
3137 Accuracy	Unsigned32	
3138 Association-Type	Unsigned32	
3139 Roaming-Information	Unsigned32	-
3140 Reachability-Information	Unsigned32	
3141 IMEI-Change	Unsigned32	
3142 Monitoring-Event-Config-Status	Grouped	
3143 Supported-Service-Masks	Grouped	
3144 Supported-Monitoring-Event-Mask	Unsigned64	
· · · · · · · · · · · · · · · · · · ·		•

13145 CRR-Flags	[1
3147 Service-Result-Code	3145 CIR-Flags	Unsigned32	-
13148 Reference-ID-Validity-Time			4
13149 Event-handling			-
1500 NIDD-Authorization-Request Grouped			╡
STORT STOR			
3152 Service-Report Grouped			
19153 Node-Type			+
1514 S6I-HSS-Cause			╡
3155 Enhanced-Coverage-Restriction Grouped			†
3156 Enhanced-Coverage-Restriction-Data Grouped			†
3157 Restricted-PLMN-List Grouped			†
3158 Allowed-PLMH-List			†
3159 Requested-Validity-Time	3158 Allowed-PLMN-List		1
3161 NIDD-Authorization-Update Grouped	3159 Requested-Validity-Time		1
18162 Loss-Of-Connectivity-Reason	3160 Granted-Validity-Time	Time	1
1916 Group-Reporting-Guard-Timer]
1916 CIA-Flags]
3165 Group-Monitoring-Event-Report Grouped			<u> </u>
3166 Group-Monitoring-Event-Report-Item			
3168 Type-OF-External-Identifier			
3168 Type-Of-External-Identifier Unsigned32 Note: The AVP codes from 3170 to 3199 are reserved for TS 29.336. 3200 M-Delivery-Outcome-T4 Enumerated 29.337 2021 Absent-User-Diagnostic T4 Enumerated 29.337 2022 Trigger-Action Unsigned32 [29] 3203 MTC-Error-Diagnostic Unsigned32 [29] 3203 MTC-Error-Diagnostic Unsigned32 [29] 3301 SM-Pound Unsigned32 [29] 3302 SM-Delivery-Diagnostic Unsigned32 Unsigned32 3303 SM-P-Ul OctelString 3303 SM-P-Ul OctelString 3304 SM-P-Ul OctelString 3305 SM-Delivery-Failure-Cause Grouped 3306 SM-Delivery-Failure-Cause Enumerated 3306 SM-Delivery-Timer Unsigned32 3307 SM-Delivery-Start-Time Time 3308 SM-RP-MIT Enumerated 3309 SM-RP-SMEA OctelString 3310 SR-R-Flags Unsigned32 3311 SM-Delivery-Dutcome Enumerated 3312 MWD-Status Unsigned32 3313 MME-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3314 MSC-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3315 SGSN-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3316 SM-Delivery-Outcome Grouped 29.338 3317 MME-SM-Delivery-Outcome Grouped 29.338 3318 SGSN-M-Delivery-Outcome Grouped 332 SM-Delivery-Outcome Grouped 333 SM-Delivery-Outcome Grouped 333 SM-Delivery-Outcome Grouped 333 SM-Delivery-Outcome Grouped 333 SM-Delivery-Outcome Gr			↓
Step APN-Validity-Time			. ↓
Note: The AVP codes from 3170 to 3199 are reserved for TS 29.336. 3200 SM-Delivery-Outcome-T4			-
Sand SM-Pollivery-Outcome-T4		Grouped	
3201 Absent-Subscriber-Diagnostic-T4		F	
2022 Trigger-Action			1 00 007
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.			
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337. 3300 SC-Address OctetString 3301 SM-RP-U OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery-Failure-Cause Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated 3305 SM-Diagnostic-Info OctetString 3306 SM-Delivery-Timer Unsigned32 3307 SM-Delivery-Timer Unsigned32 3308 SM-RP-MTI Enumerated 3309 SM-RP-SMEA OctetString 3310 SRF-Flags Unsigned32 3311 SM-Delivery-Not-Intended Enumerated 3312 SM-Flags Unsigned32 3313 MRF-Subseri-User-Subscriber-Diagnostic-SM Unsigned32 3314 MSC-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3315 SGSN-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3316 SM-Delivery-Outcome Grouped 29,338 3317 MME-SM-Delivery-Outcome Grouped 3318 SM-Delivery-Outcome Grouped 3319 SGSN-SM-Delivery-Outcome Grouped 3321 SM-Delivery-Outcome Grouped 3321 SM-Delivery-Outcome Grouped 3321 SM-Delivery-Outcome Grouped 3322 Absent-User-Diagnostic-SM Unsigned32 3318 SM-Delivery-Outcome Grouped Grouped 3321 SM-Delivery-Outcome Grouped 3322 Absent-User-Diagnostic-SM Unsigned32 3318 SM-Delivery-Outcome Grouped Grouped 3321 SM-Delivery-Outcome Grouped 3322 Absent-User-Diagnostic-SM Unsigned32 3324 Absent-User-Diagnostic-SM Unsigned32 3324 SMSMI-Correlation-ID Unsigned32 3324 SMSMI-Correlation-ID Unsigned32 3325 HSS-ID UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3328 Originating-SIP-URI UTF8String 3329 Maximum-Retransmission-Time Time Time 3330 Maximum-Retransmission-Time Time 3331 SMS-GMSC-Address OctetString 3332 OctetString 3333 OctetString 3333 OctetString 3334 OctetString 33			[29]
3301 SC-Address OctetString 3301 SM-RP-UI OctetString 3301 SM-RP-UI OctetString 3302 TFR-Flags Unsigned32 3303 SM-Delivery- Failure-Cause Grouped Grouped 3304 SM-Enumerated-Delivery-Failure-Cause Enumerated Grouped 3305 SM-Diagnostic-Info OctetString OctetString 3306 SM-Diagnostic-Info OctetString Unsigned32 3307 SM-Delivery-Start-Time Time Time 3308 SM-P-MTI Enumerated OctetString 3309 SM-RP-SMEA OctetString OctetString 3310 SRR-Flags Unsigned32 Unsigned32 3311 SM-Delivery-Not-Intended Enumerated 3312 SM-Delivery-Not-Intended Enumerated 3313 MME-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3314 MSC-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3315 SGSN-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3316 SM-Delivery-Outcome Grouped Grouped 3318 MSC-SM-Delivery-Outcome Grouped Grouped 3320 IP-SM-GW-SM-Delivery-Outcome Grouped Grouped 3321 SM-Delivery-Outcome Grouped Grouped 3321 SM-Delivery-Outcome Grouped Grouped 3322 Absent-User-Diagnostic-SM Unsigned32 3324 SM-Delivery-Cause Enumerated 3325 SSS-ID Unsigned32 3326 SSS-ID Unsigned32 3326 SSS-ID Unsigned32 3326 Originating-SIP-URI UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3328 OFR-Flags Unsigned32 3329 Maximum-Retransmission-Time Time 3330 Maximum-Retransmission-Time Time 3331 Requested-Retransmission-Time Time 3332 SMS-GMSC-Address OctetString 3328 OctetString 3328 OctetString 3328 OctetString 3328 OctetString OctetString 3328 OctetString SMS-GMSC-Address OctetString OctetString 3328 OctetString OctetString OctetString 3328 OctetString OctetString OctetString 3328 OctetString OctetS		Unsigned32	1
3302 SM-RP-UI		OctetString	
3302 TFR-Flags			†
3303 SM-Delivery- Failure-Cause Grouped			†
3304 SM-Enumerated-Delivery-Failure-Cause Enumerated			†
3306 SM-Delivery-Timer Unsigned32 3307 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 3312 MWD-Status Unsigned32 3313 MMC-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3314 MSC-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3315 SGSN-Absent-User-Subscriber-Diagnostic SM Unsigned32 3316 SM-Delivery-Outcome Grouped 3317 MME-SM-Delivery-Outcome Grouped 3318 MSC-SM-Delivery-Outcome Grouped 3319 SGSN-SM-Delivery-Outcome Grouped 3320 IP-SM-GW-SM-Delivery-Outcome Grouped 3321 SM-Delivery-Coutcome Grouped 3322 Absent-User-Diagnostic-SM Unsigned32 3323 RDR-Flags Unsigned32 3324 SMSMI-Outerlation-ID Unsigned32			†
3307 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 Enumerated 3312 MWD-Status Unsigned32 3313 MME-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3314 MSC-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3315 SGSN-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3316 SM-Delivery-Outcome Grouped Group	3305 SM-Diagnostic-Info	OctetString	7
3308 SM-RP-MTI Enumerated 3309 SM-RP-SMEA OctetString 3310 SRR-Flags Unsigned32 3311 SM-Delivery-Not-Intended Enumerated 3312 JMVD-Status Unsigned32 3313 JMME-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3314 MSC-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3315 SGSN-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3316 SM-Delivery-Outcome Grouped 3316 SM-Delivery-Outcome Grouped 3318 MSC-SM-Delivery-Outcome Grouped 3320 IP-SM-GW-SM-Delivery-Outcome Grouped 3320 IP-SM-GW-SM-Delivery-Outcome Grouped 3321 SM-Delivery-Cause Enumerated 3322 Absent-User-Diagnostic-SM Unsigned32 3323 RDR-Flags Unsigned32 3324 SMSMI-Correlation-ID Unsigned32 3325 HSS-ID UTF8String 3326 Originating-SIP-URI UTF8String <tr< td=""><td>3306 SM-Delivery-Timer</td><td>Unsigned32</td><td>1 </td></tr<>	3306 SM-Delivery-Timer	Unsigned32	1
3309 SM-RP-SMEA OctetString 3310 SRR-Flags Unsigned32 3311 SM-Delivery-Not-Intended Enumerated 3312 MWD-Status Unsigned32 3313 MME-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3314 MSC-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3315 SGSN-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3316 SM-Delivery-Outcome Grouped Grouped 3317 SME-SM-Delivery-Outcome Grouped Grouped 3318 MSC-SM-Delivery-Outcome Grouped Grouped 3319 SGSN-SM-Delivery-Outcome Grouped Grouped 3320 IP-SM-GW-SM-Delivery-Outcome Grouped Grouped 3321 SM-Delivery-Cause Enumerated 3322 Absent-User-Diagnostic-SM Unsigned32 3323 RDR-Flags Unsigned32 3324 SMSMI-Correlation-ID Unsigned32 3325 HSS-ID UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3328 OFR-Flags Unsigned32 3329 Maximum-UE-Availability-Time Time 3330 Maximum-Retransmission-Time Time 3331 Requested-Retransmission-Time Time 3332 SMS-GMSC-Address OctetString OctetS		Time	<u> </u>
3310 SRR-Flags Unsigned32 3311 SM-Delivery-Not-Intended Enumerated 3312 MWD-Status Unsigned32 3313 MME-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3314 MSC-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3315 SGSN-Absent-User-Subscriber-Diagnostic SM Unsigned32 3316 SM-Delivery-Outcome Grouped 3317 MME-SM-Delivery-Outcome Grouped 3318 MSC-SM-Delivery-Outcome Grouped 3319 SGSN-SM-Delivery-Outcome Grouped 3320 IP-SM-GW-SM-Delivery-Outcome Grouped 3321 SM-Delivery-Cause Enumerated 3322 Absent-User-Diagnostic-SM Unsigned32 3323 RDR-Flags Unsigned32 3324 SMSMI-Correlation-ID UTF8String 3325 HSS-ID UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3329 Maximum-Retransmission-Time Time			<u>↓</u>
SM-Delivery-Not-Intended Enumerated			1
3312 MWD-Status Unsigned32 3313 MME-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3314 MSC-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3315 SGSN-Absent-User-Subscriber-Diagnostic SM Unsigned32 3316 SM-Delivery-Outcome Grouped 3317 MME-SM-Delivery-Outcome Grouped 3318 MSC-SM-Delivery-Outcome Grouped 3319 SGSN-SM-Delivery-Outcome Grouped 3320 IP-SM-GW-SM-Delivery-Outcome Grouped 3321 SM-Delivery-Cause Enumerated 3322 Absent-User-Diagnostic-SM Unsigned32 3323 RDR-Flags Unsigned32 3324 SMSMI-Correlation-ID Unsigned32 3325 HSS-ID UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3329 Maximum-UE-Availability-Time Time 3331 Maximum-Retransmission-Time Time 3332 SMS-GMSC-Address OctetStrin			<u>↓</u>
3313MME-Absent-User-Subscriber-Diagnostic-SMUnsigned323314MSC-Absent-User-Subscriber-Diagnostic-SMUnsigned323315SGSN-Absent-User-Subscriber-Diagnostic SMUnsigned323316SM-Delivery-OutcomeGrouped3317MME-SM-Delivery-OutcomeGrouped3318MSC-SM-Delivery-OutcomeGrouped3319SGSN-SM-Delivery-OutcomeGrouped3320IP-SM-GW-SM-Delivery-OutcomeGrouped3321SM-Delivery-CauseEnumerated3322Absent-User-Diagnostic-SMUnsigned323323RDR-FlagsUnsigned323324SMSMI-Correlation-IDUnsigned323325HSS-IDUTF8String3326Originating-SIP-URIUTF8String3327Destination-SIP-URIUTF8String3328OFR-FlagsUnsigned323329Maximum-UE-Availability-TimeTime3330Maximum-Retransmission-TimeTime3331Requested-Retransmission-TimeTime3332SMS-GMSC-AddressOctetString			<u>↓</u>
3314MSC-Absent-User-Subscriber-Diagnostic-SMUnsigned323315SGSN-Absent-User-Subscriber-Diagnostic SMUnsigned323316SM-Delivery-OutcomeGrouped3317MME-SM-Delivery-OutcomeGrouped3318MSC-SM-Delivery-OutcomeGrouped3319SGSN-SM-Delivery-OutcomeGrouped3320IP-SM-GW-SM-Delivery-OutcomeGrouped3321SM-Delivery-CauseEnumerated3322Absent-User-Diagnostic-SMUnsigned323323RDR-FlagsUnsigned323324SMSMI-Correlation-IDUnsigned323325HSS-IDUTF8String3326Originating-SIP-URIUTF8String3327Destination-SIP-URIUTF8String3328OFR-FlagsUnsigned323329Maximum-UE-Availability-TimeTime3330Maximum-Retransmission-TimeTime3331Requested-Retransmission-TimeTime3332SMS-GMSC-AddressOctetString		Ü	.
3315 SGSN-Absent-User-Subscriber-Diagnostic SM Unsigned32 3316 SM-Delivery-Outcome Grouped 3317 MME-SM-Delivery-Outcome Grouped 3318 MSC-SM-Delivery-Outcome Grouped 3319 SGSN-SM-Delivery-Outcome Grouped 3320 IP-SM-GW-SM-Delivery-Outcome Grouped 3321 SM-Delivery-Cause Enumerated 3322 Absent-User-Diagnostic-SM Unsigned32 3323 RDR-Flags Unsigned32 3324 SMSMI-Correlation-ID UTF8String 3325 HSS-ID UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3328 OFR-Flags Unsigned32 3329 Maximum-UE-Availability-Time Time 3330 Maximum-Retransmission-Time Time 3331 Requested-Retransmission-Time Time 3332 SMS-GMSC-Address OctetString			4
3316 SM-Delivery-Outcome Grouped 29.338 3317 MME-SM-Delivery-Outcome Grouped [30] 3318 MSC-SM-Delivery-Outcome Grouped 3319 GSN-SM-Delivery-Outcome Grouped 3320 IP-SM-GW-SM-Delivery-Outcome Grouped 3321 SM-Delivery-Cause Enumerated 3322 Absent-User-Diagnostic-SM Unsigned32 3323 RDR-Flags Unsigned32 3324 SMSMI-Correlation-ID Unsigned32 3325 HSS-ID UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3328 3329 Maximum-UE-Availability-Time Time 3330 Maximum-Retransmission-Time Time 3331 Requested-Retransmission-Time Time 3331 Requested-Retransmission-Time Time 3332 SMS-GMSC-Address OctetString OctetString			4
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3318 MSC-SM-Delivery-Outcome Grouped 3319 SGSN-SM-Delivery-Outcome Grouped 3320 IP-SM-GW-SM-Delivery-Outcome Grouped 3321 SM-Delivery-Cause Enumerated 3322 Absent-User-Diagnostic-SM Unsigned32 3323 RDR-Flags Unsigned32 3324 SMSMI-Correlation-ID Unsigned32 3325 HSS-ID UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3328 OFR-Flags Unsigned32 3329 Maximum-UE-Availability-Time Time 3330 Maximum-Retransmission-Time Time 3331 Requested-Retransmission-Time Time 3332 SMS-GMSC-Address OctetString			
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3321 SM-Delivery-Cause Enumerated 3322 Absent-User-Diagnostic-SM Unsigned32 3323 RDR-Flags Unsigned32 3324 SMSMI-Correlation-ID Unsigned32 3325 HSS-ID UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3328 OFR-Flags Unsigned32 3329 Maximum-UE-Availability-Time Time 3330 Maximum-Retransmission-Time Time 3331 Requested-Retransmission-Time Time 3332 SMS-GMSC-Address OctetString			┪
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3323 RDR-Flags Unsigned32 3324 SMSMI-Correlation-ID Unsigned32 3325 HSS-ID UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3328 OFR-Flags Unsigned32 3329 Maximum-UE-Availability-Time Time 3330 Maximum-Retransmission-Time Time 3331 Requested-Retransmission-Time Time 3332 SMS-GMSC-Address OctetString			†
3324 SMSMI-Correlation-ID Unsigned32 3325 HSS-ID UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3328 OFR-Flags Unsigned32 3329 Maximum-UE-Availability-Time Time 3330 Maximum-Retransmission-Time Time 3331 Requested-Retransmission-Time Time 3332 SMS-GMSC-Address OctetString			†
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3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3328 OFR-Flags Unsigned32 3329 Maximum-UE-Availability-Time Time 3330 Maximum-Retransmission-Time Time 3331 Requested-Retransmission-Time Time 3332 SMS-GMSC-Address OctetString			1
3327 Destination-SIP-URI UTF8String 3328 OFR-Flags Unsigned32 3329 Maximum-UE-Availability-Time Time 3330 Maximum-Retransmission-Time Time 3331 Requested-Retransmission-Time Time 3332 SMS-GMSC-Address OctetString			1
3328OFR-FlagsUnsigned323329Maximum-UE-Availability-TimeTime3330Maximum-Retransmission-TimeTime3331Requested-Retransmission-TimeTime3332SMS-GMSC-AddressOctetString			1
3329Maximum-UE-Availability-TimeTime3330Maximum-Retransmission-TimeTime3331Requested-Retransmission-TimeTime3332SMS-GMSC-AddressOctetString	3328 OFR-Flags]
3331Requested-Retransmission-TimeTime3332SMS-GMSC-AddressOctetString		Time]
3332 SMS-GMSC-Address OctetString	3330 Maximum-Retransmission-Time		
			<u> </u>
3333 SMS-GMSC-Alert-Event Unsigned32			
	3333 SMS-GMSC-Alert-Event	Unsigned32	

Note: The AVP codes from 3334 to 3399 are reserved for TS 29.338.		
3400 reserved	-	
3401 Reason-Header	UTF8String	1
3402 Instance-Id	UTF8String	1
3403 Route-Header-Received	UTF8String	₹
3404 Route-Header-Transmitted	UTF8String	₹
3405 SM-Device-Trigger-Information	Grouped	
3406 MTC-IWF-Address	Address	1
3407 SM-Device-Trigger-Indicator	Enumerated	┪
3408 SM-Sequence-Number	Unsigned32	┪
3409 SMS-Result	Unsigned32	
3410 VCS-Information	Grouped	
3411 Basic-Service-Code	Grouped	+
3412 Bearer-Capability	OctetString	
3413 Teleservice	OctetString	
3414 ISUP-Location-Number	OctetString	
3415 Forwarding-Pending	Enumerated	-
3416 ISUP-Release-Cause		-
3417 MSC-Address	Unsigned32	┥
	OctetString	→
3418 Network-Call-Reference-Number	OctetString	⊣
3419 Start-of-Charging	Time	
3420 VLR-Number	OctetString	⊣
3421 CN-Operator-Selection-Entity	Enumerated	<u> </u>
3422 ISUP-Cause-Diagnostics	OctetString	⊣
3423 ISUP-Cause-Location	Unsigned32	⊣
3424 ISUP-Cause-Value	Unsigned32	.
3425 EPDG-Address	Address	<u> </u>
3426 Announcing-UE-HPLMN-Identifier	UTF8String	<u> </u>
3427 Announcing-UE-VPLMN-Identifier	UTF8String	<u> </u>
3428 Coverage-Status	Enumerated	→
3429 Layer-2-Group-ID	OctetString	
3430 Monitored-PLMN-Identifier	UTF8String	
3431 Monitoring-UE-HPLMN-Identifier	UTF8String	32.299 [5]
3432 Monitoring-UE-Identifier	UTF8String	
3433 Monitoring-UE-VPLMN-Identifier	UTF8String	
3434 ProSe-PC3-Control-Protocol-Cause	Integer32	<u> </u>
3435 ProSe-PC3-EPC-Control-Protocol-Cause	Integer32	
3436 Requested-PLMN-Identifier	UTF8String	
3437 Requestor-PLMN-Identifier	UTF8String	
3438 Role-Of-ProSe-Function	Enumerated	
3439 Usage-Information-Report-Sequence-Number	Integer32	7
3440 ProSe-3rd-Party-Application-ID	UTF8String	
3441 ProSe-Direct-Communication-Transmission-Data-Container	Grouped	
3442 ProSe-Direct-Discovery-Model	Enumerated	7
3443 ProSe-Event-Type	Enumerated	7
3444 ProSe-Function-IP-Address	Address	7
3445 ProSe-Functionality	Enumerated	╡
3446 ProSe-Group-IP-Multicast-Addresses	Address	┪
3447 ProSe-Information	Grouped	
3448 ProSe-Range-Class	Enumerated	┪
3449 ProSe-Reason-For-Cancellation	Enumerated	┪
3450 ProSe-Request-Timestamp	Time	┪
3451 ProSe-Role-Of-UE	Enumerated	
3452 ProSe-Source-IP-Address	Address	
3453 ProSe-UE-ID	OctetString	
3454 Proximity-Alert-Indication	Enumerated	
3455 Proximity-Alert-Timestamp	Time	
3456 Proximity-Cancellation-Timestamp	Time	
		
3457 ProSe-Function-PLMN-Identifier	UTF8String	-
3458 Application-Specific-Data	OctetString	
3459 Coverage-Info	Grouped	⊣
3460 Location-Info	Grouped	⊣
3461 ProSe-Direct-Communication-Reception-Data-Container	Grouped	⊣ ∣
3462 Radio-Frequency	OctetString	⊣ ∣
3463 Radio-Parameter-Set-Info	Grouped	

3464 Radio-Parameter-Set-Values	OctetString	
3465 Radio-Resources-Indicator	Integer32	
3466 Time-First-Reception	Time	
3467 Time-First-Transmission	Time	
3468 Transmitter-Info	Grouped	
Note: The AVP codes from 3469 to 3499 are reserved for TS 32.299.	•	•
3500 BMSC-Address	Address	
3501 BMSC-Port	Unsigned32	
3502 MBMS-Bearer-Event	Unsigned32	
3503 MBMS-Bearer-Event-Notification	Grouped	
3504 MBMS-Bearer-Request	Grouped	
3505 MBMS-Bearer-Response	Grouped	
3506 MBMS-Bearer-Result	Unsigned32	
3507 MBMS-Start-Time	Time	
3508 Radio-Frequency	Unsigned32	
3509 TMGI-Allocation-Request	Grouped	
3510 TMGI-Allocation-Response	Grouped	
3511 TMGI-Allocation-Result	Unsigned32	29.468
3512 TMGI-Deallocation-Request	Grouped	[31]
3513 TMGI-Deallocation-Response 3514 TMGI-Deallocation-Result	Grouped Unsigned32	
3515 TMGI-Expiry 3516 TMGI-Number	Grouped Unsigned32	
3517 MB2U-Security	Unsigned32	
3518 Local-M1-Information	Grouped	
3519 Local-MB2-U-Information	Grouped	
3520 MBMS-eNB-IP-Multicast-Address	Address	
3521 MBMS-eNB-IPv6-Multicast-Address	Address	
3522 MBMS-GW-SSM-IP-Address	Address	
3523 MBMS-GW-SSM-IPv6-Address	Address	
3524 Common-Tunnel-Endpoint-Identifier	OctetString	
Note: The AVP codes from 3525 to 3599 are reserved for TS 29.468.	<u> </u>	4
3600 Origin-App-Layer-User-Id	UTF8String	
3601 Target-App-Layer-User-Id	UTF8String	
3602 ProSe-Function-ID	OctetString	
3603 ProSe-Request-Type	Unsigned32	
3604 PDUID	OctetString	
3605 Application-Data	UTF8String	29.343
3606 Allowed-Suffixes-Number	Unsigned32	[32]
3607 Monitor-Target	Grouped	[02]
3608 ProSe-Code-Suffix-Mask	Grouped	
3609 Suffix-Code	OctetString	
3610 Suffix-Mask	OctetString	
3611 Banned-User-Target	Grouped	
3612 Metadata-Indicator	Unsigned32	
Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343.	Crawad	1
3701 ProSe-Subscription-Data	Grouped	
3702 ProSe-Permission 3703 ProSe-Allowed-PLMN	Unsigned32 Grouped	
3703 Prose-Allowed-PLIVIN 3704 Prose-Direct-Allowed	Unsigned32	29.344
3704 Prose-Direct-Allowed 3705 UPR-Flags	Unsigned32	[33]
3706 PNR-Flags	Unsigned32	[الا
3700 ProSe-Initial-Location-Information	Grouped	
3708 Authorized-Discovery-Range	Unsigned32	
Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344.	0.10.g.10402	ı
3800 Reserved		
3801 App-Layer-User-Id	UTF8String	
3802 Assistance-info	Grouped	
3803 Assistance-Info-Validity-Timer	Unsigned32	29.345
3804 Discovery-Type	Unsigned32	
3805 Filter-Id	OctetString	[34]
3806 MAC-Address	UTF8String	
3807 Match-Report	Grouped	
3808 Operating-Channel	Unsigned32	
3809 P2P-Features	Unsigned32	
	~	•

1810 ProSe-App-doc UTF8String 1811 ProSe-App-doc UTF8String 3811 ProSe-App-Mask UTF8String 3812 ProSe-App-Mask UTF8String 3813 ProSe-Decovery-Filter Grouped 3814 ProSe-Decovery-Filter Grouped 3815 ProSe-Sevalidity-Timer Unsigned32 3816 Requesting-EPUID UTF8String 3817 Trageted-EPUID UTF8String 3818 Trageted-EPUID UTF8String 3818 Trageted-EPUID UTF8String 3818 WiF1-F2-Assistance-Info Grouped 3820 WANA-Assistance-Info Grouped 3820 WANA-Assistance-Info Grouped 3822 WANA-Link-Layer-Id-List Grouped 3822 WANA-Link-Layer-Id-List Grouped 3822 WANA-Link-Layer-Id-List Grouped 3822 Location-Update-Trigger Grouped 3822 Location-Update-Event-Trigger Grouped 3822 Location-Update-Event-Trigger Unsigned32 3822 Categorie Cardinality Enumerated Unsigned32 3822 Report-Cardinality Enumerated Unsigned32 3822 Report-Cardinality Enumerated Unsigned32 3823 Report-Cardinality Enumerated Unsigned32 3833 Report-Cardinality Enumerated Unsigned32 3833 Report-Cardinality Enumerated Unsigned32 3833 Validity-Time-Amonor Unsigned32 3834 Validity-Time-Amonor Unsigned32 3834 Validity-Time-Amonor Unsigned32 3834 Validity-Time-Amonor Unsigned32 3834 Validity-Time-Amonor Unsigned32 3836 MC Cardiffier Unsigned33 3836 MC Cardiffier Unsigned33 3836 MC Cardiffier Unsigned33			
1812 ProSe-App-Mask	3810 ProSe-App-Code	UTF8String	1
1812 ProSe-App-Mask	3811 ProSe-App-Id	UTF8String	
Birtis ProSe-Discovery-Filter Grouped	3812 ProSe-App-Mask	UTF8String	7
19814 PRR-Flags		9	†
19815 ProSerValidity-Timer			+
3816 Requesting-EPUID			4
1817 Targeted-EPUID			↓
1818 Time-Vindow		UTF8String	
1818 Time-Vindow	3817 Targeted-EPUID	UTF8String	Ī
			†
1820 WLAN-Assistance-Info			+
Sez WLAN-Link-Layer-Id-List Grouped			4
1822 WLAN-Link-Layer-Id-List Grouped			↓
19823 Location-Update-Trigger		OctetString	1
19823 Location-Update-Trigger	3822 WLAN-Link-Layer-Id-List	Grouped	1
1822 Location-Update-Event-Type Grouped			†
1825 Change-Of-Area-Type			+
1826 Location-Update-Event-Trigger			4
			↓
3828 Minimum-Interval-Time	3826 Location-Update-Event-Trigger		
3828 Minimum-Interval-Time	3827 Report-Cardinality	Enumerated	
			1
1830 Location-Report-Interval-Time			┪
			
Sa32 Validity-Time-Announce			4
S833 Validity-Time-Monitor		U U	1
S833 Validity-Time-Monitor	3832 Validity-Time-Announce	Unsigned32	1
			₫ !
3836 ProSe-App-Code-Info			†
3836 MIC			+
3837 UTC-based-Counter			4
3838 ProSe-Match-Refresh-Timer			1
3839 ProSe-Metadata-Index-Mask	3837 UTC-based-Counter	Unsigned32	
3839 ProSe-Metadata-Index-Mask	3838 ProSe-Match-Refresh-Timer	Unsigned32	7
3840 App-Identifier			†
3841 OS-ID			+
3842 OS-App-ID			4
3844 Target-RPAUID			↓
3844 Target-RPAUID	3842 OS-App-ID	UTF8String	1
3844 Target-RPAUID	3843 Requesting-RPAUID	UTF8String	
3845 Target-PDUID			1
3846 ProSe-Restricted-Code			†
3847 ProSe-Restricted-Code-Suffix-Range		<u> </u>	+
3848 Beginning-Suffix OctetString 3849 Ending-Suffix OctetString 3850 Discovery-Entry-ID Unsigned32 3851 Match-Timestamp Time 3852 PMR-Flags Unsigned32 3853 ProSe-Application-Metadata UTF8String 3854 Discovery-Auth-Request Grouped 3855 Discovery-Auth-Response Grouped 3856 Match-Request Grouped 3857 Match-Report-Info Grouped 3858 Banned-RPAUID UTF8String 3859 Banned-PDUID OctetString 3860 Code-Receiving-Security-Material Grouped 3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUCK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString </td <td></td> <td></td> <td>4</td>			4
3849 Ending-Suffix OctetString 3850 Discovery-Entry-ID Unsigned32 3851 Match-Timestamp Time 3852 PMR-Flags Unsigned32 3853 ProSe-Application-Metadata UTF8String 3854 Discovery-Auth-Request Grouped 3855 Discovery-Auth-Response Grouped 3856 Match-Request Grouped 3857 Match-Report-Info Grouped 3858 Banned-RPAUID UTF8String 3859 Banned-PDUID OctetString 3860 Code-Receiving-Security-Material Grouped 3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. <td></td> <td></td> <td>↓</td>			↓
3850 Discovery-Entry-ID Unsigned32 3851 Match-Timestamp Time 3852 PMR-Flags Unsigned32 3853 ProSe-Application-Metadata UTF8String 3854 Discovery-Auth-Request Grouped 3855 Discovery-Auth-Response Grouped 3856 Match-Request Grouped 3857 Match-Report-Info Grouped 3858 Banned-RPAUID UTF8String 3859 Banned-PDUID OctetString 3860 Code-Receiving-Security-Material Grouped 3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 Reserved 3901 <t< td=""><td>3848 Beginning-Suffix</td><td>OctetString</td><td>1</td></t<>	3848 Beginning-Suffix	OctetString	1
3850 Discovery-Entry-ID Unsigned32 3851 Match-Timestamp Time 3852 PMR-Flags Unsigned32 3853 ProSe-Application-Metadata UTF8String 3854 Discovery-Auth-Request Grouped 3855 Discovery-Auth-Response Grouped 3856 Match-Request Grouped 3857 Match-Report-Info Grouped 3858 Banned-RPAUID UTF8String 3859 Banned-PDUID OctetString 3860 Code-Receiving-Security-Material Grouped 3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 Reserved 3901 <t< td=""><td>3849 Ending-Suffix</td><td>OctetString</td><td></td></t<>	3849 Ending-Suffix	OctetString	
Match-Timestamp		· ·	7
3852 PMR-Flags Unsigned32 3853 ProSe-Application-Metadata UTF8String 3854 Discovery-Auth-Request Grouped 3855 Discovery-Auth-Response Grouped 3856 Match-Request Grouped 3857 Match-Report-Info Grouped 3858 Banned-RPAUID UTF8String 3859 Banned-PDUID OctetString 3860 Code-Receiving-Security-Material Grouped 3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 Reserved 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped	, ,	<u> </u>	†
3853 ProSe-Application-Metadata UTF8String 3854 Discovery-Auth-Request Grouped 3855 Discovery-Auth-Response Grouped 3856 Match-Request Grouped 3857 Match-Report-Info Grouped 3858 Banned-RPAUID UTF8String 3859 Banned-PDUID OctetString 3860 Code-Receiving-Security-Material Grouped 3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 Reserved 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped			+
3854 Discovery-Auth-Request Grouped 3855 Discovery-Auth-Response Grouped 3856 Match-Request Grouped 3857 Match-Report-Info Grouped 3858 Banned-RPAUID UTF8String 3859 Banned-PDUID OctetString 3860 Code-Receiving-Security-Material Grouped 3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 Prose-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 3900 Reserved Grouped 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped			4
3855 Discovery-Auth-Response Grouped 3856 Match-Request Grouped 3857 Match-Report-Info Grouped 3858 Banned-RPAUID UTF8String 3859 Banned-PDUID OctetString 3860 Code-Receiving-Security-Material Grouped 3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped			1
3855 Discovery-Auth-Response Grouped 3856 Match-Request Grouped 3857 Match-Report-Info Grouped 3858 Banned-RPAUID UTF8String 3859 Banned-PDUID OctetString 3860 Code-Receiving-Security-Material Grouped 3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped	3854 Discovery-Auth-Request	Grouped	1
3856 Match-Request Grouped 3857 Match-Report-Info Grouped 3858 Banned-RPAUID UTF8String 3859 Banned-PDUID OctetString 3860 Code-Receiving-Security-Material Grouped 3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 3900 Reserved Grouped 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped	3855 Discovery-Auth-Response		7
3857 Match-Report-Info Grouped 3858 Banned-RPAUID UTF8String 3859 Banned-PDUID OctetString 3860 Code-Receiving-Security-Material Grouped 3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 3900 Reserved Grouped 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped			†
3858 Banned-RPAUID UTF8String 3859 Banned-PDUID OctetString 3860 Code-Receiving-Security-Material Grouped 3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 3900 Reserved Grouped 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped			+
3859 Banned-PDUID OctetString 3860 Code-Receiving-Security-Material Grouped 3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 3900 Reserved Grouped 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped			4
3860 Code-Receiving-Security-Material Grouped 3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 Reserved 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped			4
3860 Code-Receiving-Security-Material Grouped 3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 Reserved 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped		OctetString	
3861 Code-Sending-Security-Material Grouped 3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. Secured 3900 Reserved Grouped 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped			7
3862 DUSK OctetString 3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 3900 Reserved 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped			†
3863 DUIK OctetString 3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 3900 Reserved 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped			†
3864 DUCK OctetString 3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 3900 Reserved Grouped 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped			+
3865 MIC-Check-indicator Unsigned32 3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. Secondary String Str			4
3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 3900 Reserved Grouped 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped			1
3866 Encrypted-Bitmask OctetString 3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 3900 Reserved Grouped 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped	3865 MIC-Check-indicator	Unsigned32	1
3867 ProSe-App-Code-Suffix-Range OctetString Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 3901 Reserved 3901 Enhanced-Diagnostics 3902 Inter-UE-Transfer 3903 TWAG-Address 3904 Announcement-Information 3905 Grouped	3866 Encrypted-Bitmask		1
Note: The AVP codes from 3868 to 3899 are reserved for TS 29.345. 3900 Reserved Grouped 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped			†
3900 Reserved Grouped 3901 Enhanced-Diagnostics Grouped 3902 Inter-UE-Transfer Enumerated 3903 TWAG-Address Address 3904 Announcement-Information Grouped		Cotototing	1
3901 Enhanced-DiagnosticsGrouped3902 Inter-UE-TransferEnumerated3903 TWAG-AddressAddress3904 Announcement-InformationGrouped			1
3902 Inter-UE-TransferEnumerated3903 TWAG-AddressAddress3904 Announcement-InformationGrouped			4
3903 TWAG-Address Address 32.299 [5] 3904 Announcement-Information Grouped			1
3903 TWAG-Address Address 32.299 [5] 3904 Announcement-Information Grouped	3902 Inter-UE-Transfer	Enumerated	22 200 [5]
3904 Announcement-Information Grouped			J32.299 [5]
			1
Onsignedoz			†

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3906 Announcement-Order	Unsigned32	
3907 Variable-Part	Grouped	
3908 Variable-Part-Order	Unsigned32	
3909 Variable-Part-Type	Unsigned32	
3910 Variable-Part-Value	UTF8String	
3911 Time-Indicator	Unsigned32	
3912 Quota-Indicator	Enumerated	
3913 Play-Alternative	Enumerated	
3914 Language	UTF8String	
3915 Privacy-Indicator	Enumerated	
3916 Called-Identity	UTF8String	
3917 Called-Identity-Change	Grouped	
3918 UWAN-User-Location-Info	Grouped	
3919 Monitoring-Event-Configuration-Activity	Integer32	
3920 Monitoring-Event-Report-Data	Grouped	
3921 Monitoring-Event-Information	Grouped	
3922 Monitoring-Event-Functionality	Integer32	
3923 Monitoring-Event-I uncuonality 3924 Monitoring-Event-Report-Number	Unsigned32	
	OctetString	
3924 Cellular-Network-Information	9	
3925 Related-Change-Condition-Information	Grouped	
3926 Related-Trigger	Grouped	
3927 CPDT-Information	Grouped	
3928 NIDD-Submission	Grouped	
3929 Serving-Node-Identity	DiameterIdentity	
3930 CP-CloT-EPS-Optimisation-Indicator	Enumerated	
3931 SGi-PtP-Tunnelling-Method	Enumerated	
3932 UNI-PDU-CP-Only-Flag	Enumerated	
3933 APN-Rate-Control	Grouped	
3934 APN-Rate-Control-Downlink	Grouped	
3935 APN-Rate-Control-Uplink	Grouped	
3936 Additional-Exception-Reports	Enumerated	
3937 Rate-Control-Max-Message-Size	Unsigned32	
3938 Rate-Control-Max-Rate	Unsigned32	
3939 Rate-Control-Time-Unit	Unsigned32	
3940 SCS-AS-Address	Grouped	
3941 SCS-Address	Address	
3942 SCS-Realm	DiameterIdentity	
Note: The AVP codes from 3943 to 3999 are reserved for TS 32.299.	Diameteridentity	
4000 Aggregated-Congestion-Info	Grouped	
4001 Aggregated-Congestion-Into	Grouped	
4002 Congestion-Level-Definition	Grouped	
4003 Congestion-Level-Range	Unsigned32	
4004 Congestion-Level-Set-Id	Unsigned32	
4005 Congestion-Level-Value	Unsigned32	
4006 Congestion-Location-Id	Grouped	29.217
4007 Conditional-Restriction	Unsigned32	[35]
4008 eNodeB-Id	OctetString	
4009 IMSI-List	OctetString	
4010 RCAF-Id	DiameterIdentity	
4011 Reporting-Restriction	Unsigned32	
4012 RUCI-Action	Unsigned32	
4013 Extended-eNodeB-ID	OctetString	
Note: The AVP codes from 4014 to 4099 are reserved for TS 29.217.		
4101 Network-Congestion-Area-Report	Grouped	29.153
4102 Ns-Request-Type	Unsigned32	[37]
Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.	<u> </u>	
4201 Network-Area-Info-List	OctetString	
4202 Reference-Id	OctetString	
4203 Transfer-Request-Type	Unsigned32	
4204 Time-Window	Grouped	
4205 Transfer-End-Time	Time	29.154
4206 Transfer-Start-Time	Time	[38]
4207 Transfer-Policy	Grouped	
4207 Transfer-Folicy 4208 Transfer-Policy-Id	Unsigned32	
4209 Number-Of-UEs	Unsigned32	
		1

Note: The AVD codes from 4240 to 4200 are recorded for TC 20 154		
Note: The AVP codes from 4210 to 4299 are reserved for TS 29.154. 4300 Communication-Failure-Information	Grouped	
4301 Cause-Type	Unsigned32	
4302 S1AP-Cause	Unsigned32	
4303 RANAP-Cause	Unsigned32	
4304 GMM-Cause	Unsigned32	
4305 SM-Cause	Unsigned32	
4306 Number-of-UE-Per-Location-Configuration	Grouped	
4307 Number-of-UE-Per-Location-Report	Grouped	
4308 UE-Count	Unsigned32	
4309 BSSGP-Cause	Unsigned32	
4310 Serving-PLMN-Rate-Control 4311 Uplink-Rate-Limit	Grouped Unsigned32	
4311 Opink-Rate-Limit	Unsigned32	29.128
4313 Extended-PCO	OctetString	[36]
4314 Connection-Action	Unsigned32	
4315 Non-IP-Data	OctetString	
4316 SCEF-Wait-Time	Time	
4317 CMR-Flags	Unsigned32	
4318 RRC-Cause-Counter	Grouped	
4319 Counter-Value	Unsigned32	
4320 RRC-Counter-Timestamp	Time	
4321 TDA-Flags	Unsigned32	
4322 Reserved	-	
4323 Reserved	-	
4324 Reserved	-	
Note: The AVP codes from 4325 to 4399 are reserved for TS 29.128.	Enumerated	
4400 Charging-Per-IP-CAN-Session-Indicator 4401 Access-Network-Info-Change	Enumerated Enumerated	
4402 Discoveree-UE-HPLMN-Identifier	UTF8String	
4403 Discoveree-UE-VPLMN-Identifier	UTF8String	
4404 Discoverer-UE-HPLMN-Identifier	UTF8String	
4405 Discoverer-UE-VPLMN-Identifier	UTF8String	
4406 3GPP-PS-Data-Off-Status	Enumerated	00 000 [5]
4407 Unused-Quota-Timer	Unsigned32	32.299 [5]
4408 Announcing-PLMN-ID	UTF8String	
4409 ProSe-UE-to-Network-Relay-UE-ID	OctetString	
4410 ProSe-Target-Layer-2-ID	OctetString	
4411 Relay-IP-address	Address	
4412 Target-IP-Address	Address	
4413 FE-Identifier-List Note: The AVP codes from 4414 to 4499 are reserved for TS 32.299	UTF8String	
4500 MCPTT-ID	UTF8String	
4501 Data-Identification	Grouped	
4502 Data-Identification-Prefix	Unsigned32	
4503 Data-Identification-Flags	Unsigned64	
4504 DPR-Flags	Unsigned32	
4505 DPA-Flags	Unsigned32	
4506 DUR-Flags	Unsigned32	20.202
4507 DUA-Flags	Unsigned32	29.283
4508 NDR-Flags	Unsigned32	[39]
4509 NDA-Flags	Unsigned32	
4510 User-Data-Id	Unsigned32	
4511 MC-Service-User-Profile-Data	Grouped	
4512 Sequence-Number	Unsigned32	
4513 MCVideo-ID	UTF8String	
4514 MC-Data-ID Note: The AVP codes from 4515 to 4599 are reserved for TS 29.283.	UTF8String	
4600 V2X-PC5-Allowed-PLMN	Grouped	
4601 V2X-PCS-Allowed-PLIVIN 4601 V2X-Update-Flags	Unsigned32	29.388
4602 V2X-Opdate-Hags	Unsigned32	[40]
Note: The AVP codes from 4603 to 4799 are reserved for TS 29.388.	1 Onorginodoz	L
4700 V2X-Authorization-Data	Grouped	22.55
4701 V2X-Permission-in-VPLMN	Unsigned32	29.389
4702 V2X-Application-Server	Grouped	[41]
	_	

Note: The AVP codes from 4703 to 4799 are reserved for TS and TS 29.389.

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 Experim	ental Result Codes from 2022 to 2040 are reserved for the TS 29.061	
		29.109 [7]
Note: The Experime	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.	

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

	Experim Result (Result text		Specified in the TS
_	4100	0	DIAMETER_USER_DATA_NOT_AVAILABLE	·	29.329 [4]
	4101		DIAMETER_PRIOR_UPDATE_IN_PROGRESS		<u></u>
	Note: The E		ntal Result Codes from 4102 to 4120 are reserved for the TS 29	9.329.	
	412		DIAMETER_ERROR_OUT_OF_RESOURCES		29.061 [13]
		_	ntal Result Codes from 4122 to 4140 are reserved for the TS 29	9.061.	
	414		DIAMETER_PCC_BEARER_EVENT		
	4142		DIAMETER_BEARER_EVENT		29.212 [19]
	4143		DIAMETER_AN_GW_FAILED		23.212[19]
	414		DIAMETER_PENDING_TRANSACTION		
	Note: The E	xperime	ntal Result Codes from 4145 to 4160 are reserved for the TS 29).212	
					32.299 [5]
			ntal Result Codes from 4161 to 4180 are reserved for the TS 32	2.299.	<u>.</u>
			R_AUTHENTICATION_DATA_UNAVAILABLE		29.272 [21]
			R_ERROR_CAMEL_SUBSCRIPTION_PRESENT	•	23.272 [21]
Note: The	<u>e Experimen</u>	tal Resul	t Codes from 4182 to 4200 are reserved for the TS 29.272.		
			R_ERROR_ABSENT_USER	:	29.173 [25]
			t Codes from 4202 to 4220 are reserved for the TS 29.173.		
42			R_ERROR_UNREACHABLE_USER		
42			R_ERROR_SUSPENDED_USER		
42			R_ERROR_DETACHED_USER		29.172 [24]
42			R_ERROR_POSITIONING_DENIED	•	29.172 [24]
42	225	DIAMETE	R_ERROR_POSITIONING_FAILED		
			R_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT		
Note: The	e Experimen	tal Resul	t Codes from 4227 to 4240 are reserved for the TS 29.172.		
			R_ERROR_NO_AVAILABLE_POLICY_COUNTERS	:	29.219 [26]
Note: The			t Codes from 4242 to 4260 are reserved for the TS 29.219.		
42	261 F	REQUES	TED_SERVICE_TEMPORARILY_NOT_AUTHORIZED	2	29.214 [18]

8.1.4 Permanent Failures

Note: The Experimental Result Codes from 4262 to 4280 are reserved for the TS 29.214.

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	
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED	
5012	DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUPP ORTED	
Note: The Expe	rimental Result Codes from 5013 to 5020 are reserved for the TS	
		32.299 [5]
Note: The Expe	rimental Result Codes from 5021 to 5040 are reserved for the TS	S 32.299.
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC RIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	
Note: The Expe	rimental Result Codes from 5046 to 5060 are reserved for the TS	\$ 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	101 000 00
5064	DUPLICATED_AF_SESSION	29.209 [8],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.211 [17] ,
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	29.214 [18]
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
5068	TEMPORARY_NETWORK_FAILURE	
Note: The Expe	rimental Result Codes from 5069 to 5080 are reserved for TS 29	.209, TS 29.211
and and	TS 29.214.	
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	29.329 [4]
5105	DIAMETER_ERROR_TRANSPARENT_DATA	29.329 [4]
	OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
Note: The Expe	rimental Result Codes from 5109 to 5119 are reserved for the TS	S 29.329.
	5120 DIAMETER ERROR START INDICATIO	

| 5120 | DIAMETER_ERROR_START_INDICATION | 5121 | DIAMETER_ERROR_STOP_INDICATION | 5122 | DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC | E | 5123 | DIAMETER_ERROR_SERVICE_AREA | 29.061 [13]

Note: The Expe	erimental Result Codes from 5124 to 5139 are reserved for the TS	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	
	D	29.212 [19]
5145	DIAMETER_QOS_RULE_EVENT	
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
5148	DIAMETER_ADC_RULE_EVENT	
5149	DIAMETER_ERROR_NBIFOM_NOT_AUTHORIZED	
Note: The Expe	erimental Result Codes from 5150 to 5159 are reserved for the TS	S 29.212.
5401	DIAMETER_ERROR_IMPI_UNKNOWN	29.109 [7
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7

5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID	
Note: The Exp	perimental Result Codes from 5404 to 5419 are reserved for the TS	S 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	
Note: The Exp	perimental 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	20 272 [20]
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	29.273 [20]
5453	DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST	
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST	
Note: The Exp	perimental Result Codes from 5455 to 5469 are reserved for the TS	S 29.273.
	FAZO DIAMETED EDDOD OLIDOFOCIONI	

tal Result Codes	from 5455 to 5469 are reserved for the TS 29.273.	
5470	DIAMETER_ERROR_SUBSESSION	
5471	DIAMETER ERROR ONGOING SESSION ESTABLISHME	29.215 [22]
	NT	, ,
Note: The Exp	erimental Result Codes from 5472 to 5489 are reserved for the	TS 29.215.
5490	DIAMETER ERROR UNAUTHORIZED REQUESTING NET	r I
	WORK	29.173 [25]
Note: The Exp	erimental Result Codes from 5491 to 5509 are reserved for the	TS 29.173.
5510	DIAMETER ERROR UNAUTHORIZED REQUESTING EN	
00.0	TY	' '
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
5512	DIAMETER ERROR REQUESTED RANGE IS NOT	
3312	ALLOWED	
5513	DIAMETER ERROR CONFIGURATION EVENT STORAGE	29.336 [28]
3313	_NOT_SUCCESSFUL	-
5514	DIAMETER_ERROR_CONFIGURATION_EVENT_NON_EXI	9
3314	TANT	3
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	-
	erimental Result Codes from 5516 to 5529 are reserved for the	TC 20 226
	DIAMETER_ERROR_INVALID_SME_ADDRESS	13 29.330.
5530		_
5531	DIAMETER_ERROR_SC_CONGESTION	
5532	DIAMETER_ERROR_SM_PROTOCOL	29.337 [29]
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	_ ` '
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5535	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDIN	
	erimental Result Codes from 5536 to 5549 are reserved for the	TS 29.337.
5550	DIAMETER_ERROR_ABSENT_USER	
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5553	DIAMETER_ERROR_ILLEGAL_USER	
5554	DIAMETER_ERROR_ILLEGAL_EQUIPMENT	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 Exp	erimental Result Codes from 5559 to 5569 are reserved for the	TS 29.338.
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
Note: The	Experimental Result Codes from 5571 to 5589 are reserved for	r the TS 29.219.
5590	DIAMETER ERROR ORIGIN ALUID UNKNOWN	
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	
5592	DIAMETER_ERROR_PFID_UNKNOWN	
5593	DIAMETER ERROR APP REGISTER REJECT	
5594	DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOW	티
0001	D	-
5595	DIAMETER ERROR MAP REQUEST REJECT	
5596	DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN	29.343 [32]
5597	DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_S	
0001	ET	´
5598	DIAMETER ERROR MISSING APPLICATION DATA	
5599	DIAMETER_ERROR_AUTHORIZATION_REJECT	\dashv
5600	DIAMETER_ERROR_DISCOVERY_NOT_PERMITTED	-
5600		_
	DIAMETER_ERROR_TARGET_RPAUID_UNKNOWN	_
5602	DIAMETER_ERROR_INVALID_APPLICATION_DATA	

· · · · · · · · · · · · · · · · · · ·		
	mental Result Codes from 5603 to 5609 are reserved for the TS	\$ 29.343.
	NAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION	
	NAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]
	NAMETER_ERROR_UE_LOCATION_UNKNOWN	
	mental Result Codes from 5613 to 5629 are reserved for the TS	3 29.344.
5630 E	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT	
	ER	
5631 D	NAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P	
	LMN	
5632 D	NAMETER_ERROR_INVALID_APPLICATION_CODE	
5633 D	NAMETER_ERROR_PROXIMITY_UNAUTHORIZED	
	NAMETER_ERROR_PROXIMITY_REJECTED	
5635 D	NAMETER_ERROR_NO_PROXIMITY_REQUEST	29.345 [34]
5636 D	NAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_	29.343 [34]
P	LMN	
5637 D	NAMETER_ERROR_PROXIMITY_CANCELLED	
5638 D	NAMETER_ERROR_INVALID_TARGET_PDUID	
5639 D	NAMETER_ERROR_INVALID_TARGET_RPAUID	
5640 D	NAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO	
D	E	
5641 D	NAMETER_ERROR_INVALID_DISCOVERY_TYPE	
Note: The Experir	mental Result Codes from 5642 to 5649 are reserved for the TS	3 29.345.
5650 D	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV	
	ED	
5651 D	NAMETER_ERROR_INVALID_EPS_BEARER	
5652 D	NAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA	29.128 [36]
	LE	
5653 D	NAMETER_ERROR_USER_TEMPORARILY_UNREACHABL	
E		
Note: The Experir	mental Result Codes from 5654 to 5669 are reserved for the TS	3 29.128.
5670	DIAMETER_ERROR_UNKNKOWN_DATA	1001 000 00
5671	DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	29.283 [39]
Note: The Experir	mental Result Codes from 5672 to 5689 are reserved for the TS	S 29.128.
5690	DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION	
5691	DIAMETER_ERROR_V2X_NOT_ALLOWED	29.388 [40]
Note: The Experir	mental Result Codes from 5692 to 5709 are reserved for the TS	3 29.388.

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

chapter 8 of this specification will be updated to show the reserved ranges. The working group can use the allocated ranges as a working assumption when defining the actual result codes.

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

Data	TCC #	TSC Dag	CB	Dave	Change history	Uld	Nove
Date	TSG #	TSG Doc.	CR	Kev	Subject/Comment	Old	New
2004-06	CN#24	NP-040292	004		Version 2.0.0 presented for information and approval	2.0.0	6.0.0
2004-09	CN#25		001		Correction of Charging application reference	6.0.0	6.1.0
2004-09	CN#25	NP-040401	002		Correction of the Application-Id code	6.0.0	6.1.0
2004-09	CN#25	NP-040401	003	_	Removal of User Data Request Type AVP	6.0.0	6.1.0
2004-09	CN#25	NP-040412	004	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	007	1	Reservation of command code 310	6.1.0	6.2.0
2004-12 2004-12	CN#26 CN#26	NP-040579 NP-040600	010	2	Addition of Gmb interface Documenting the Reuse of the 3GPP specific application identifier	6.1.0 6.1.0	6.2.0
2004-12	CIN#26	INP-040600	010	2		6.1.0	6.2.0
2004-12	CN#26	NP-040579	011		of Ro for Re on the Charging Interfaces Gq interface allocations	6.1.0	6.2.0
2004-12	CN#26		012		Addition of Gx interface	6.1.0	6.2.0
2005-03	CN#27		040	1	WLAN Diameter AVP and result codes	6.2.0	6.3.0
2005-03	CIN#Z1		040		Allocations for Gx interface	0.2.0	0.3.0
		NP-050039			Allocations for Gx interface Allocations for Gmb interface		
		NP-050039					
2005.06	CT#20				Allocations for MMS, MM10 Interface	620	6.4.0
2005-06	CT#28	CP-050088		4	Gx interface allocation correction	6.3.0	6.4.0
2005.00	CT#29	CP-050196		1	Addition of Maximum-Number-Accesses AVP Private identities on the Cx	6.4.0	650
2005-09	C1#29	CP-050440		1		0.4.0	6.5.0
		CP-050310 CP-050310			Addition of Pr reference point to TS 29.230	-	
					Error code cleanup Addition of Rx ref. point and renaming of Experimental Result		
		CP-050310	0056		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
2000 12	01,1100	CP-050612			Additional Gmb AVP Allocation	7.0.0	1
		CP-050612			Reservation of AVP codes for 32.299		
		CP-050625			Management of Sh subscriptions	1	
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.1.0	7.2.0
	00.	CP-060084			User-Data in the response to Sh-Subs-Notif		
		CP-060084		1	New error indications for the Sh-Subs-Notif procedure	1	
2006-06	CT#32	CP-060302		Ė	S-CSCF reselection removal	7.2.0	7.3.0
2006-09	CT#33	CP-060417		3	New AVP Code	7.3.0	7.4.0
			0080		Errors to be sent in response to Sh-Notif		
		CP-060417			Definition of specific Diameter codes for DSAI		
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.4.0	7.5.0
		CP-060562			Addition of Diameter Error Code for Emergency Purposes		
		CP-060555			Allocation of new AVP codes for Gmb	1	
		CP-060555			AVP code allocations for Rf and Ro interfaces	1	
		CP-060566			Allocation of Success Result Code Range for Gi Interface	1	
2007-03	CT#35	CP-070020			C3 requested addition of new AVP code values to 3GPP TS 29.230	7.5.0	7.6.0
		CP-070020			Allocation of new AVP code for DSAI-Tag AVP		
		CP-070020	0093		Allocation of Experimental-Result-Code AVP for Gi Interface	1	
2007-06	CT#36	CP-070318			Diameter application ID for the Rel-7 Rx interface	7.6.0	7.7.0
		CP-070312			Experimental-Result-Codes for Gmb interface	1	
		CP-070312			Correction of Diameter AVP code allocation	1	
2007-09	CT#37		0102		Application ID for Gx protocol	7.7.0	7.8.0
2007-12	CT#38	CP-070743			AVP code reservation for 32.299 in Rel-7	7.8.0	7.9.0
			0105		Allocation of 3GPP specific AVP codes and Experimental Result		
	<u> </u>	<u> </u>			Codes for Gx protocol	<u> </u>	<u> </u>
2007-12	CT#38	CP-070755	0101	4	AVP assignments to support SIP Digest Authentication	7.9.0	8.0.0
			0103		AVP code reservation for 32.299 in Rel-8		<u></u>
2008-03	CT#39		0109		Correction of reference to TS 29.140	8.0.0	8.1.0
		CP-080019			AVP code reservation for TS 32.299 in Rel-8]	
		CP-080019			Wildcarded Public User Identities]	
		CP-080191	0112	1	Correction on AVP code allocation reservation for TS 32.299 in		
		00.0000		ļ	Rel-7		
			0113		Correction on AVP code allocation reservation for TS 32.299		1
2008-06	CT#40	CP-080267		1	A new Diameter Permanent Failure Code for Gx	8.1.0	8.2.0
2008-09	CT#41	CP-080456		ļ	Emergency Public User Identity Removal	8.2.0	8.3.0
2008-09	CT#41		0121		Support of "Loose-Route" indication from HSS]	
2008-09	CT#41		0122	1	STaMIP Application Id]	
2008-09	CT#41	CP-080463	0123		Cx Impacts of IMS Restoration Procedures (New AVP Codes	1	
					Assignment)		

2008-09	CT#41	CP-080463	0124		New AVP Code Assignment for Forking Service Restoration	8.2.0	8.3.0
2008-12	CT#42		0127		Diameter Protocol Codes Assignments for S6a/S6d/S13	8.3.0	8.4.0
2008-12	CT#42	CP-080691			Diameter code assignments for 3GPP TS 29.273	8.3.0	8.4.0
2009-03	CT#43	CP-090044			Update for ReadyForSM	8.4.0	8.5.0
2009-03	CT#43	CP-090044		1	Handling LCS Subscription Data	8.4.0	8.5.0
2009-03	CT#43	CP-090026			Update for Restoration	8.4.0	8.5.0
2009-03	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 2009-03	CT#43 CT#43	CP-090024 CP-090024			AVP codes for S9 protocol Diameter AVP Code allocation	8.4.0 8.4.0	8.5.0 8.5.0
2009-03	CT#43		0140		Location of Permanent Failure result code range for the S9	8.4.0	8.5.0
2005 05	01#45	01 030024	0140	'	application	0.4.0	0.5.0
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	0129	4	Update of the AVP Codes	8.5.0	8.6.0
			0143		AVP code reservation for TS 32.299		
		CP-090299	0145		Diameter Command Codes for S6a/S6d/S13/S13'		
			0146		Removal of Requesting Node Type from AIR		
		CP-090299			S6b Application ID		
2009-09	CT#45		0149		Allocation of Experimental-Result-Codes for S9 protocol	8.6.0	8.7.0
			0152		AVP code allocation for TS 29.212	_	
			0150		Update of the AVP type for the User-Id	-	
2000 00	OT#45		0153		Trace Depth per session	0.7.0	0.0.0
2009-09 2009-12	CT#45 CT#46	CP-090557 CP-090800	0148 0154	1	AVP code range for charging ICS-Flag	8.7.0 9.0.0	9.0.0
2009-12	C1#40	CP-090000 CP-091032	0156	1	From GMLC-Address to GMLC-Number	9.0.0	9.1.0
		01 001002	0160		Session-Priority AVP		
			0163	2	Introduction of SLh application related AVPs and Experimental		
					Result codes		
			0166		Missing AVP error codes		
		CP-090797	0167	1	Introduction of SLg application related AVPs and Application		
2010.02	CT#47	CD 100031	0150	4	Identifier Wildcarded Public Identity	0.1.0	0.2.0
2010-03	CT#47	CP-100031 CP-100034	0158 0168		Correction on AVP code allocation reservation for TS 32.299 in	9.1.0	9.2.0
		C1 -100034	0100		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		1	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 CP-100175			Addition of the LCS-QoS-Class attribute value Introduction of the LCS-Capabilities-Sets AVP in SLh interface	_	
2010-06	CT#48	CP-100173	0188	1	AVP Codes for PCC	9.2.0	9.3.0
2010 00	0111140	01 100200	0183		EPS state and location retrieval	0.2.0	0.0.0
		CP-100287			SGmb Application ID		
		CP-100277		1	New APVs in S6a protocol		
2010-09	CT#49	CP-100463	0197	1	Addition of Diameter codes and identifiers for the SLg and SLh	9.3.0	9.4.0
					interfaces		
2040.00	CT#40	CP-100464	0196	4	AVP Codes Allocation for PCC	0.4.0	40.00
2010-09	CT#49	CP-100465 CP-100466			SIPTO Permission Indicator Location data including only serving node address	9.4.0	10.0.0
		CP-100466			AVP for Update-Eff feature		
2010-12	CT#50	CP-100699			Enhanced SRVCC Subscriber Data	10.0.0	10.1.0
		CP-100687		1	Allocate codes for AVPs on eMPS	1	
		CP-100683		1	Allocate codes for AVPs on LIPA		
		CP-100688		1	Periodic TAU/RAU timer in HSS subscription		
		CP-100846		1	S6a Error Diagnostic		
2011-03	CT#51	CP-110051	0212		PDP-Address correction	10.1.0	10.2.0
		CP-110054		_	Essential correction on the value type of the ELP Application AVPs		
		CP-110087	0207		Minimization of Drive Tests (MDT)		
2011-06	CT#52	CP-110088 CP-110349	0209	2	Relay Node Indicator AVPs Handling of RTR for Emergency Registration	10.20	10.3.0
2011 - 00	01#02	CP-110349		1	Add AVPs from QSPEC cleanup	10.2.0	10.3.0
		CP-110359	0226	•	MIPv4 security parameters on the STa and S6b interfaces	1	
		CP-110380			MDT user consent	1	
		CP-110370			AVP Code Allocation for Pre-paging]	
		CP-110375	0227		PUR-Flags AVP		
2011-09	CT#53	CP-110559	0236	1	AVP code alignment with 29.212	10.3.0	10.4.0
		CP-110555		1	AVP code alignment with 32.299		
		CP-110554		1	AVP code alignment with 29.214	1	
		CP-110552			Experimental Result Code Alignment with 29.061	-	
		CP-110555	0252		Failure code and AVP code alignment with 29.212	1	

2011-09		CP-110722	0257	2	Priviledged sender	1	I
2011 00	CT#53	CP-110722			Add vSRVCC updates to the Diameter AVP code table	10.4.0	11 0 0
	011100	CP-110579		•	AVP code alignment with 32.299	100	11.0.0
		CP-110555	0253		AVP code reservation for 29.212		
2011-12	CT#54	CP-110812		1	SWx Restoration AVPs	11.0.0	11.1.0
		CP-110812			Sy and Sd Application IDs		
		CP-110775			New AVP codes for MBMS IP unicast encapsulation		
		CP-110775 CP-110786	0265 0271	1	New AVP codes for MBMS IP multicast encapsulation MME-Realm AVP code allocation		
		CP-110780	0277	-	Equivalent PLMN CSG Subscription Request		
		CP-110781		1	Restoration of Wildcarded-IMPU AVP		
2012-03	CT#55	CP-120025	0286		Codes Allocation for AVPs on Initial Attach	11.1.0	11.2.0
		CP-120038	0288		New AVP codes for Absolute Time of MBMS Data Transfer over		
					SGmb		
0010.00	OT#50	CP-120038		1	Allocating Diameter AVP codes for TS 29.219 and TS 29.212	44.0.0	4400
2012-06	CT#56	CP-120240		_	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 WLAN Access feature		
		CP-120225	0296	1	Trust Relationship Indication		
		CP-120251	0297	_	Corrections to reference titles		
		CP-120251	0298		Diameter Code Allocation for TS 29.219		
		CP-120247		-	Network Name AVP codes		
		CP-120219	0304	-	Duplicated AVP names		
2012-09	CT#57	CP-120481	0289		PS additional number allocation	11.3.0	11.4.0
		CP-120473			SMS in MME/SGSN	4	
		CP-120461			AAA Failure Recovery AVP codes		
		CP-120474			Transport Access Type AVP for BBAI		
		CP-120480 CP-120472	0307 0308	1	Local Time Zone Allocating Application Identifier and command code for Tsp		
		CP-120472	0306	-	interface		
		CP-120472	0309	_	Application Identifier, Command Codes and AVP range for S6m		
		0202	0000		interface		
		CP-120667	0312	1	GMLC-Name		
			0313		Reference list correction to align with the corrected TS 29.212 title		
2012-12	CT#58	CP-120731	0315		T4 device triggering via IMS	11.4.0	11.5.0
		CP-120731	0318		Codes and Identifier Allocation for T4 Specification		
		CP-120731	0324		AVP Code Allocation for 29.336		
		CP-120731	0329		Diameter AVP code value allocation in TS 29.368 Application Identifier, Command Codes and AVP codes for SGd,		
		CP-120732	0319	2	S6c		
		CP-120716	0324	1	AVP name modification in TS 32.299		
		CP-120742		-	UE Time Zone AVP		
		CP-120741		1	Use of Flag instead of Enumerated AVPs		
		CP-120741	332	-	Use of Flag instead of Enumerated AVPs		
		0. 1207 11		-	DOL discotore discontinue de la contra del contra de la contra del la contra del la contra del la contra del la contra de la contra del la		
		CP-120743			PSI direct routing with restoration procedures		
		CP-120743 CP-120743	333	-	EPS LocationInformation Support		
2013-03	CT#59	CP-120743 CP-120743 CP-130026	333 0334	1	EPS LocationInformation Support Diameter error code for TS 29.219	11.5.0	11.6.0
		CP-120743 CP-120743 CP-130026 CP-130026	333 0334 0336	-	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters		
2013-03	CT#59	CP-120743 CP-120743 CP-130026 CP-130026 CP-130156	333 0334 0336 0337	-	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface	11.5.0	
2013-03	CT#59	CP-120743 CP-120743 CP-130026 CP-130026 CP-130156 CP-130030	333 0334 0336 0337 0341	- 1 -	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message	11.6.0	12.0.0
		CP-120743 CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130288	333 0334 0336 0337 0341 0362	- 1 - 1	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP		12.0.0
2013-03	CT#59	CP-120743 CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298	333 0334 0336 0337 0341 0362 0360	- 1 - 1	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130288	333 0334 0336 0337 0341 0362 0360	- 1 - 1 -	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292	333 0334 0336 0337 0341 0362 0360 0358 0354 0363	- 1 - 1 - - 1	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279	333 0334 0336 0337 0341 0362 0360 0358	- 1 - 1 - - 1	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130298 CP-130292 CP-130279 CP-130380 CP-130291	333 0334 0336 0337 0341 0362 0360 0358 0354 0363	- 1 - 1 - - 1 - 2	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-120743 CP-130026 CP-130026 CP-130156 CP-130030 CP-130298 CP-130299 CP-130299 CP-130291 CP-130291 CP-130291	333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348	- 1 - 1 - - 1 - 2	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-120743 CP-130026 CP-130026 CP-130030 CP-130288 CP-130298 CP-130299 CP-130297 CP-130390 CP-130291 CP-130297	333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348	- 1 - 1 - - 1 - 2	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-120743 CP-130026 CP-130026 CP-130030 CP-130288 CP-130298 CP-130292 CP-130279 CP-130291 CP-130297 CP-130297 CP-130297 CP-130297 CP-130297 CP-130297	333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344	- 1 - 1 - - 1 - 2	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures	11.6.0	12.0.0
2013-03 2013-06	CT#59 CT#60	CP-120743 CP-120743 CP-130026 CP-130026 CP-130030 CP-130288 CP-130298 CP-130297 CP-130297 CP-130297 CP-130297 CP-130297 CP-130297 CP-130374 CP-130295 CP-130378	333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349	- 1 - 1 - - 1 - 2	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements	11.6.0	12.0.0
2013-03	CT#59	CP-120743 CP-120743 CP-130026 CP-130026 CP-130156 CP-130298 CP-130298 CP-130297 CP-130297 CP-130297 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454	333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0364	- 1 - 1 - - 1 - 2	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration	11.6.0	12.0.0
2013-03 2013-06	CT#59 CT#60	CP-120743 CP-120743 CP-130026 CP-130026 CP-130030 CP-130298 CP-130292 CP-130297 CP-130297 CP-130297 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130461	333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0364 0366	- 1 - 1 - - 1 - 2	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12	11.6.0	12.0.0
2013-03 2013-06	CT#59 CT#60	CP-120743 CP-120743 CP-130026 CP-130026 CP-130156 CP-130298 CP-130298 CP-130297 CP-130297 CP-130297 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454	333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0364	- 1 - 1 - - 1 - 2	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration	11.6.0	12.0.0 12.1.0
2013-03 2013-06 2013-09	CT#59 CT#60	CP-120743 CP-120743 CP-130026 CP-130026 CP-130156 CP-130298 CP-130292 CP-130279 CP-130380 CP-130297 CP-130374 CP-130295 CP-130374 CP-130460 CP-130460	333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0364 0366 0368	- 1 - 1 1 1 2 1 1 1 1 2	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment-Request/Answer corrected	11.6.0	12.0.0 12.1.0
2013-03 2013-06 2013-09	CT#59 CT#60	CP-120743 CP-120743 CP-130026 CP-130026 CP-130056 CP-130050 CP-130298 CP-130299 CP-130299 CP-130291 CP-130297 CP-130374 CP-130297 CP-130374 CP-130460 CP-130460 CP-130460	333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0364 0366 0368	- 1 - 1 - 1 1 - 2 1 1 1 1 2	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment-Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN	11.6.0	12.0.0 12.1.0 12.2.0
2013-03 2013-06 2013-09 2013-09	CT#59 CT#60 CT#61	CP-120743 CP-120743 CP-130026 CP-130026 CP-130056 CP-130056 CP-130288 CP-130298 CP-130299 CP-130279 CP-130297 CP-130374 CP-130297 CP-130374 CP-130460 CP-130460 CP-130460	333 0334 0336 0337 0341 0362 0360 0358 0358 0344 0345 0344 0345 0344 0366 0368	- 1 - 1 - 1 1 - 2 1 1 1 1 2	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment-Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion	11.6.0 12.0.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-03 2013-06 2013-09 2013-09	CT#59 CT#60 CT#61	CP-120743 CP-120743 CP-130026 CP-130026 CP-130030 CP-130298 CP-130299 CP-130299 CP-130291 CP-130291 CP-130297 CP-130374 CP-130295 CP-130454 CP-130460 CP-130624 CP-130631 CP-130800	333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0366 0368 0369 0370 0371	- 1 - 1 1 1 2 1 1 1 1 2 1	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338	11.6.0 12.0.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-03 2013-06 2013-09 2013-09	CT#59 CT#60 CT#61	CP-120743 CP-120743 CP-130026 CP-130026 CP-130030 CP-130298 CP-130299 CP-130291 CP-130291 CP-130297 CP-130297 CP-130374 CP-130295 CP-130454 CP-130460 CP-130600 CP-130600	333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0366 0368 0369 0370 0371 0376	- 1 - 1 1 1 2 1 1 1 1 2 1	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 32.299	11.6.0 12.0.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-03 2013-06 2013-09 2013-09	CT#59 CT#60 CT#61	CP-120743 CP-120743 CP-130026 CP-130026 CP-130030 CP-130298 CP-130299 CP-130291 CP-130291 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130460 CP-130605	333 0334 0336 0337 0341 0362 0360 0358 0354 0348 0347 0345 0344 0349 0366 0368 0369 0370 0371 0376 0378	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 32.299 Allocation of Diameter codes for 29.212	11.6.0 12.0.0 12.1.0	12.0.0 12.1.0 12.2.0
2013-03 2013-06 2013-09 2013-09 2013-12	CT#59 CT#60 CT#61	CP-120743 CP-120743 CP-130026 CP-130026 CP-130030 CP-130298 CP-130292 CP-130297 CP-130297 CP-130297 CP-130374 CP-130295 CP-130378 CP-130454 CP-130461 CP-130600 CP-130600 CP-130605 CP-130605	333 0334 0336 0337 0341 0362 0360 0358 0354 0363 0348 0347 0345 0344 0349 0366 0368 0369 0370 0371 0376 0378	- 1 - 1 - 1 - 1 - 1	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 32.299 Allocation of Diameter codes for 29.212 SGSN CAMEL Subscription Indication	11.6.0 12.0.0 12.1.0 12.2.0	12.0.0 12.1.0 12.2.0 12.2.1 12.3.0
2013-03 2013-06 2013-09 2013-09	CT#59 CT#60 CT#61	CP-120743 CP-120743 CP-130026 CP-130026 CP-130030 CP-130288 CP-130292 CP-130297 CP-130297 CP-130297 CP-130297 CP-130374 CP-130295 CP-130454 CP-130461 CP-130460 CP-130600 CP-130605 CP-130603	333 0334 0336 0337 0341 0362 0360 0358 0354 0348 0347 0345 0344 0349 0366 0368 0369 0370 0371 0376 0378	- 1 - 1 - 1 - 1 - 1	EPS LocationInformation Support Diameter error code for TS 29.219 MDT parameters New AVPs for Lgd interface Validity Time of Short Message Add new DER-S6b-flag AVP Failure Result Codes Allocation for TS 29.219 Diameter AVP codes for new TS 32.299 AVPs Definition of SS Status for Call Barring New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over Lgd interface Application Port Identifier MTRR on Sh Restoration Priority during SGW and PGW restoration procedures SIPTO permission for Local Network enhancements New MBMS flag for eMBMS restoration AVP code reservation for TS 32.299 Rel-12 Allocation of Diameter codes and identifiers for 29.212 and 29.215 Vendor-specific command code for Trigger-Establishment- Request/Answer corrected New AVP for optimized LCS procedure for combined MME/SGSN Adding E-SMLC provided Cell info and Cell Portion New AVPs for SMS for IMS UE without MSISDN in TS 29.338 Allocation of Diameter codes for 32.299 Allocation of Diameter codes for 29.212	11.6.0 12.0.0 12.1.0 12.2.0	12.0.0 12.1.0 12.2.0 12.2.1 12.3.0

0403 0404 0405 0406 0407 0408 0409 0410 0410 0418 0429 0433 0434 0425 0426 0427 0447 04437 04437 04442 04425 04421 04425 04427 04447 04437 04447	1 1	replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition Definition of AVPs for Network Location in TWLAN TWAN-BSSID AVP re-naming New AVPs for Trusted WLAN access Adding Codes for 29.214 T-GRUU restoration MB2-C codes New AVPs for Trusted WLAN access P-CSCF Restoration indication Closing TS 29.234 and reused AVP in TS 29.273 Identification of the HSS Editorial: WLAN-offloadability AVP codes added as in CR C4-141648. New AVP for MBMS restoration New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection Reset-ID Code definitions for 32.299 Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	12.5.0	
0391 0392 0399 0397 0390 0403 0404 0405 0406 0407 20408 0410 0411 0416 0428 0429 0433 0434 0437 0437 0447 0447 0447 0447 0448 0442 0443 04447 04437 04447 0445 04442 044	1 1	SS-Status AVP Definition Definition of AVPs for Network Location in TWLAN TWAN-BSSID AVP re-naming New AVPs for Trusted WLAN access Adding Codes for 29.214 T-GRUU restoration MB2-C codes New AVPs for Trusted WLAN access P-CSCF Restoration indication Closing TS 29.234 and reused AVP in TS 29.273 Identification of the HSS Editorial: WLAN-offloadability AVP codes added as in CR C4-141648. New AVP for MBMS restoration New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection Reset-ID Code definitions for 32.299 Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	12.6.0	
0392 - 0399 - 0397 - 0390 1 0403 1 0404 1 0405 1 0406 2 0408 - 0410 1 0411 - 0416 3 0428 - 0429 1 0433 - 0434 1 0434 1 0435 - 0437 1 0447 - 0447 - 0447 - 0447 -		Definition of AVPs for Network Location in TWLAN TWAN-BSSID AVP re-naming New AVPs for Trusted WLAN access Adding Codes for 29.214 T-GRUU restoration MB2-C codes New AVPs for Trusted WLAN access P-CSCF Restoration indication Closing TS 29.234 and reused AVP in TS 29.273 Identification of the HSS Editorial: WLAN-offloadability AVP codes added as in CR C4-141648. New AVP for MBMS restoration New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection Reset-ID Code definitions for 32.299 Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	12.6.0	
0397 - 0390 1 0403 1 0404 1 0405 1 0406 1 0407 2 0408 - 0409 1 0411 - 0416 1 0418 - 0422 1 0433 - 0434 1 0434 1 0435 - 0437 1 0447 - 0447 - 0447 - 0447 1	1 1 1 1 1 1 2 - - 1 1 - - 1 1 - - 1 4 3 3	TWAN-BSSID AVP re-naming New AVPs for Trusted WLAN access Adding Codes for 29.214 T-GRUU restoration MB2-C codes New AVPs for Trusted WLAN access P-CSCF Restoration indication Closing TS 29.234 and reused AVP in TS 29.273 Identification of the HSS Editorial: WLAN-offloadability AVP codes added as in CR C4-141648. New AVP for MBMS restoration New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection Reset-ID Code definitions for 32.299 Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	12.6.0	
0390 0403 0404 0405 0407 0408 0409 0409 0409 0409 0409 0411 0416 0428 0422 0423 0434 0435 0437 0437 0435 0442 0442 0442 0443 04442 0443 04447 04437 04447	1 1 1 1 1 1 2 - - 1 1 - - 1 1 - - 1 4 3 3	Adding Codes for 29.214 T-GRUU restoration MB2-C codes New AVPs for Trusted WLAN access P-CSCF Restoration indication Closing TS 29.234 and reused AVP in TS 29.273 Identification of the HSS Editorial: WLAN-offloadability AVP codes added as in CR C4-141648. New AVP for MBMS restoration New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection Reset-ID Code definitions for 32.299 Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	12.6.0	
0403 0404 0405 0406 0407 0408 0409 0410 0411 0416 0428 0429 0433 0434 0435 0434 0437 04437 04437 04437 04442 0442 0442 04442 04444 0	1 1 1 1 1 1 2 - - 1 1 - - 1 1 - - 1 4 3 3	T-GRUU restoration MB2-C codes New AVPs for Trusted WLAN access P-CSCF Restoration indication Closing TS 29.234 and reused AVP in TS 29.273 Identification of the HSS Editorial: WLAN-offloadability AVP codes added as in CR C4-141648. New AVP for MBMS restoration New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection Reset-ID Code definitions for 32.299 Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	12.6.0	
0404 0405 0406 0407 20408 0409 0410 0411 0416 10428 0429 0433 0434 0425 0426 0427 0447 04437 04435 04442 0442 0442 0442 04437 04437 04447	1 1 1 1 1 2 - - 1 1 - - 1 1 - - 1 1 4 3 3	MB2-C codes New AVPs for Trusted WLAN access P-CSCF Restoration indication Closing TS 29.234 and reused AVP in TS 29.273 Identification of the HSS Editorial: WLAN-offloadability AVP codes added as in CR C4-141648. New AVP for MBMS restoration New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection Reset-ID Code definitions for 32.299 Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	12.6.0	
0405 0406 0407 2	1 1 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - - 1 - - 1 - - 1 - - - - 1 -	New AVPs for Trusted WLAN access P-CSCF Restoration indication Closing TS 29.234 and reused AVP in TS 29.273 Identification of the HSS Editorial: WLAN-offloadability AVP codes added as in CR C4-141648. New AVP for MBMS restoration New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection Reset-ID Code definitions for 32.299 Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC		12.7.0
0406 0407 2	1 2 - 1 - 1 - 1 1 4 3 3 - 1 1	P-CSCF Restoration indication Closing TS 29.234 and reused AVP in TS 29.273 Identification of the HSS Editorial: WLAN-offloadability AVP codes added as in CR C4-141648. New AVP for MBMS restoration New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection Reset-ID Code definitions for 32.299 Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC		12.7.0
0407 2 0408 - 0409 1 0430 - 0410 0 0411 - 0416 1 0428 - 0429 1 0433 - 0422 0 0433 - 0425 - 0426 1 0427 1 0437 1 0435 - 0442 1	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Closing TS 29.234 and reused AVP in TS 29.273 Identification of the HSS Editorial: WLAN-offloadability AVP codes added as in CR C4-141648. New AVP for MBMS restoration New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection Reset-ID Code definitions for 32.299 Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC		12.7.0
0408 - 0409 1 0430 - 0410 1 0411 - 0416 1 0428 - 0429 1 0423 4 0431 3 0434 1 0425 - 0426 1 0427 1 0447 - 0437 1 0435 - 0442 1	- 1 1 - 1 1 - 1 1 1 1 1 1 - 1 1 - 1	Identification of the HSS Editorial: WLAN-offloadability AVP codes added as in CR C4- 141648. New AVP for MBMS restoration New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection Reset-ID Code definitions for 32.299 Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC		12.7.0
0409 1 0430 - 0410 1 0411 - 0416 1 0428 - 0429 1 0433 - 0418 - 0422 1 0423 4 0434 1 0425 - 0426 1 0427 1 0447 - 0437 1 0435 - 0442 1	- 11 - - 11 - - 11 4 33 - - 11 11 - -	Editorial: WLAN-offloadability AVP codes added as in CR C4- 141648. New AVP for MBMS restoration New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection Reset-ID Code definitions for 32.299 Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC		12.7.0
0430 - 0410 0411 0416 0428 - 0429 0433 - 0418 - 0422 0434 0434 0425 - 0426 0427 0447 - 0437 0435 - 0442	- 11 - - 11 - - 11 4 33 - - 11 11 - -	New AVP for MBMS restoration New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection Reset-ID Code definitions for 32.299 Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC		12.7.0
0430 - 0410 0411 0416 0428 - 0429 0433 - 0418 - 0422 0434 0434 0425 - 0426 0427 0447 - 0437 0435 - 0442	- 11 - - 11 - - 11 4 33 - - 11 11 - -	New Diagnostic-Info AVP for MBMS restoration WLCP key for WLCP signalling protection Reset-ID Code definitions for 32.299 Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC		
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0411 - 0416 1 0428 - 0429 1 0433 - 0418 - 0422 1 0423 4 0434 1 0425 - 0426 1 0427 1 0447 - 0437 1 0435 - 0442 1	- 1 - - 1 1 4 3 1 - - 1 1 1 - - - 1 1 - - - - 1 1 -	Reset-ID Code definitions for 32.299 Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	1270	
0428 - 0429 0 0433 - 0418 - 0422 1 0423 4 0431 3 0434 1 0425 - 0426 1 0447 - 0437 1 0435 - 0442 1	- 1 - - 1 4 3 3 - 1 1 - 1 1 - - 1	Removal of I-WLAN AVPs Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	1270	
0429 1 0433 - 0418 - 0422 1 0423 4 0431 3 0434 1 0425 - 0426 1 0427 1 0447 - 0437 1 0435 - 0442 1	1 - - 1 4 3 3 - - 1 1 1 - - 1	Reference correction Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	1270	
0433 - 0418 - 0422 1 0423 4 0431 3 0434 1 0425 - 0426 1 0447 - 0437 1 0435 - 0442 1	- - 1 4 3 1 - - 1 1 -	Code allocation for 29.212 MDT PLMN List Codes Allocation for PC2 Protocol Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	1270	
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0423 4 0431 3 0434 1 0425 - 0426 1 0427 1 0447 - 0437 1 0435 - 0442 1	4 3 1 - 1 1 - 1	Codes Allocation for PC4a Protoco Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	1270	
0431 3 0434 1 0425 - 0426 1 0427 1 0447 - 0437 1 0435 - 0442 1	3 1 - 1 1 - 1	Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	1270	
0434 1 0425 - 0426 1 0427 1 0447 - 0437 1 0435 - 0442 1	1 - 1 1 - 1	codes and Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	1270	
0425 - 0426 1 0427 1 0447 - 0437 1 0435 - 0442 1	- 1 1 - 1	Command Code and Error Code for ProSe Initial Location Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	12.7.0	
0425 - 0426 1 0427 1 0447 - 0437 1 0435 - 0442 1	- 1 1 - 1	Information Retrieval Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	12.7.0	
0426 1 0427 1 0447 - 0437 1 0435 - 0442 1	1 1 - 1	Corrections of the type of some AVPs OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	12.7.0	
0426 1 0427 1 0447 - 0437 1 0435 - 0442 1	1 1 - 1	OFR-Flags AVP code P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	12.7.0	
0427 1 0447 - 0437 1 0435 - 0442 1	1 - 1 -	P-CSCF Restoration mechanism new error Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	1270	
0447 - 0437 1 0435 - 0442 1	- 1 -	Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	12 7 0	
0437 1 0435 - 0442 1	-	Location reporting in emergency 1xSRVCC		12.8.0
0435 - 0442 1	-]	
0442 1		AVP codes for GCSE MB2-C		
0400	•	New AVPs and range of transient failure result codes in TS 29.214	j	
0438	1	Allocation of code for Authorized-Discovery-Range AVP (TS		
		29.344)	<u> </u>	
0440 2		Location Update Trigger	_	
0441 1	1	AVP codes allocation for Validity related AVPs for TS 29.345		
0443 -	-	Allocation of codes for the Integrity Checks. Aspect AVPs	40.0.0	40.00
0439 1		Diameter Application Identifier for Np protocol	12.8.0 13.0.0	
0450 1 0457 -		AVP code allocation for Match Refresh Timer AVP in TS 29.345 Wrong CR implementation of CR 0416r1	13.0.0	13.1.0
0459 1		AVP code allocation for 32.299	-	
0452 1		AVP codes for Access Restriction Data per PLMN	1	
	<u>-</u>	IP-SM-GW-Realm	†	
0462 -		Subscription data for extended buffering at the SGW	13.1.0	13 2 (
0463 -	_	Overlapping transaction over S6b]	
0464 2	2	Addition of IMSI Group Id AVP definition	1	
0465 3		Addition of CP parameter AVP definition	j	
0470 1		AVP codes for TS 29.212	Ĭ	
0471 3		AVP definiton for S6t	1	
0473 -		Addition of MBMS-Cell-List AVP	13.2.0	13.3.0
0474 -	-	S6t Application ID and Command Codes	<u> </u>	
0474 1		Bitmask to inform the SCEF of the Monitoring capabilities	<u> </u>	
0490 1		AVP codes for MONTE T6a/b interface	ļ	
0491 1	1			
0494 2	2		1	
		subscriber (UE)		
0501 1		Definition of AVP SCEF-ID		
		Service result per Event configuration]	
0502 2	1	Emergency PDN connection over untrusted WLAN access]	
0502 2 0475 1	-	EPC-MT-LR and PS-MT-LR procedure for UEs transiently not		
0502 2		reachable due to power saving	<u> </u>	
0502 2 0475 1 0476 -	1		1	
0502 2 0475 1 0476 -		IMobile Terminating SMS handling for extended Idle mode DRY –		
0502 2 0475 1 0476 -	1			
0502 2 0475 1 0476 - 0497 1 0498 1		Additional Option		
0502 2 0475 1 0476 -	3			
0	0490 0491 0494 0501 0502 0475 0476	0490 1 0491 1 0494 2 0501 1 0502 2 0475 1 0476 -	1 AVP codes for MONTE T6a/b interface 1490 1 Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types 1 Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) 1 Definition of AVP SCEF-ID 1500 2 Service result per Event configuration 1501 1 Emergency PDN connection over untrusted WLAN access 16475 1 Emergency PDN connection over untrusted WLAN access 16476 - EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving 16497 1 Mobile Terminating SMS handling for extended Idle mode DRX 16498 1 Mobile Terminating SMS handling for extended Idle mode DRX 16498 1 Mobile Terminating SMS handling for extended Idle mode DRX 16498 1 Mobile Terminating SMS handling for extended Idle mode DRX 16498 1 Mobile Terminating SMS handling for extended Idle mode DRX 16498 1 Mobile Terminating SMS handling for extended Idle mode DRX	1 AVP codes for MONTE T6a/b interface 1491 1 Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types 1494 2 Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) 1501 1 Definition of AVP SCEF-ID 1502 2 Service result per Event configuration 1475 1 Emergency PDN connection over untrusted WLAN access 1476 - EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving 1497 1 Mobile Terminating SMS handling for extended Idle mode DRX 1498 1 Mobile Terminating SMS handling for extended Idle mode DRX 1498 1 Commands and codes for Np protocol

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2016-06 CT#72 CP-160236 O526 1 Command Codes for 29.212 14.0.0 1.0.0
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2016-06 CT#72 CP-160236 0557 1 New AVPs in TS 29.214 14.0.0 1.0
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12017-03 ICT#75 ICP-170036 I0504 I1 II ass Of Connectivity Reason [44.3.0.14]
2017-03 CT#75 CP-170036 0594 1 Loss Of Connectivity Reason 14.3.0 14
2017-03 CT#75 CP-170036 0602 1 Subscription parameters for eDRX 14.3.0

2017-03	CT#75	CP-170043	0603	1	Correct Diameter Result Code Allocated for V2X	14.3.0	14.4.0
2017-03	CT#75	CP-170049	0601	1	AVPs for ERP in 29.273	14.3.0	14.4.0
2017-03	CT#75	CP-170052	0605	-	Update of the name of MCPTT-User-Profile-Data AVP	14.3.0	14.4.0
2017-03	CT#75	CP-170045	0606	-	Support of MCVideo and MCData Services	14.3.0	14.4.0
2017-06	CT#76	CP-171029	0600	4	New AVP for Group Based MONTE Event Configuration via HSS	14.4.0	14.5.0
2017-06	CT#76	CP-171017	0609	-	New AVPs in 29.272 for MBSFN MDT	14.4.0	14.5.0
2017-06	CT#76	CP-171026	0610	-	AVP codes for 29.212	14.4.0	14.5.0
2017-06	CT#76	CP-171026	0611	-	AVP codes for 29.214	14.4.0	14.5.0
2017-06	CT#76	CP-171030	0612	1	AVP code allocation for 29.172 for Location Services for CioT	14.4.0	14.5.0
2017-06	CT#76	CP-171030	0613	-	Addition of APN-Validity-Time AVP	14.4.0	14.5.0
2017-06	CT#76	CP-171026	0615	-	AVP codes for 32.299	14.4.0	14.5.0
2017-09	CT#77	CP-172018	0616	1	Reliable Data Service Success cause	14.5.0	14.6.0
2017-09	CT#77	CP-172018	0617	1	Reliable Data Service	14.5.0	14.6.0
2017-12	CT#78	CP-173011	0624	1	AVP codes for TS 29.219	14.6.0	14.7.0

History

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