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Foreword

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1 Scope

[17]

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.
- 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 Diameter protocol; Stage 3".

3GPP TS 29.211, Release 6: "Rx Interface and Rx/Gx signalling flows".

[18]	3GPP TS 29.214: "Policy and Charging Control over Rx reference point".
[19]	3GPP TS 29.212: "Policy and Charging Control (PCC); Reference points".
[20]	3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces".
[21]	3GPP TS 29.272: "Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol".
[22]	3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point; Stage 3".
[23]	IETF RFC 5516: "Diameter Command Code Registration for Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)".
[24]	3GPP TS 29.172: "Location Services (LCS); Evolved Packet Core (EPC) LCS Protocol (ELP) between the Gateway Mobile Location Centre (GMLC) and the Mobile Management Entity (MME); SLg interface".
[25]	3GPP TS 29.173: "Location Services (LCS); Diameter-based SLh interface for Control Plane LCS".
[26]	3GPP TS 29.219: "Policy and Charging Control: Spending Limit Reporting over Sy reference point".
[27]	3GPP TS 29.368: "Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS)".
[28]	3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications".
[29]	3GPP TS 29.337: "Diameter-based T4 interface for communications with packet data networks and applications".
[30]	3GPP TS 29.338: "Diameter based protocols to support SMS capable MMEs".
[31]	3GPP TS 29.468: "Group Communication System Enablers for LTE (GCSE_LTE)".
[32]	3GPP TS 29.343: "Proximity-services (ProSe) function to ProSe application server aspects (PC2)".
[33]	3GPP TS 29.344: "Proximity-services (ProSe) Function to Home Subscriber Server (HSS) aspects".
[34]	3GPP TS 29.345: "Inter-Proximity-services (Prose) function signalling aspects; Stage 3".
[35]	3GPP TS 29.217: "Policy and Charging Control over Np reference point".
[36]	3GPP TS 29.128: "Diameter based T6a/T6b interface between the MME/SGSN and the SCEF".
[37]	3GPP TS 29.153: "Service exposure functionality between SCEF and RCAF reference point".
[38]	3GPP TS 29.154: "Service capability exposure functionality over Nt Reference point".
[39]	3GPP TS 29.283: "Diameter Data Management applications".
[40]	3GPP TS 29.388: "V2X Control Function to V2X Control Function to Home Subscriber Server (HSS) aspects (V4)".
[41]	3GPP TS 29.389: "Inter-V2X Control Function Signalling aspects (V6)".
[42]	3GPP TS 29.561: "Interworking between 5G Network and external Data Networks; Stage 3".

3 Definitions and abbreviations

3.1 Definitions

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

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

3.2 Abbreviations

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

AVP Attribute-Value-Pair CR Change Request

IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

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

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

4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

Application identifier	Application	3GPP TS
16777216	3GPP Cx/Px	29.228 [1] and 29.229 [2]
16777217	3GPP Sh/Ph	29.328 [3] and 29.329 [4]
16777218	3GPP Re	32.296 [14]
16777219	3GPP Wx	29.234 [6]
16777220	3GPP Zn	29.109 [7]
16777221	3GPP Zh	29.109 [7]
16777222	3GPP Gq	29.209 [8]
16777223	3GPP Gmb	29.061 [13]
16777224	3GPP Gx	29.210 [15]
16777225	3GPP Gx over Gy	29.210 [15]
16777226	3GPP MM10	29.140 [16]
16777229	3GPP Rx	29.211 [17]
16777230	3GPP Pr	29.234 [6]
16777236	3GPP Rx	29.214 [18]
16777238	3GPP Gx	29.212 [19]
16777250	3GPP STa	29.273 [20]
16777251	3GPP S6a	29.272 [21]
16777252	3GPP S13/S13'	29.272 [21]
16777255	3GPP SLg	29.172 [24]
16777264	3GPP SWm	29.273 [20]
16777265	3GPP SWx	29.273 [20]
16777266	3GPP Gxx	29.212 [19]
16777267	3GPP S9	29.215 [22]
16777268	3GPP Zpn	29.109 [7]
16777272	3GPP S6b	29.273 [20]
16777291	3GPP SLh	29.173 [25]
16777292	3GPP SGmb	29.061 [13]
16777302	3GPP Sy	29.219 [26]
16777303	3GPP Sd	29.212 [19]
16777308	3GPP S7a	29.272 [21]
16777309	3GPP Tsp	29.368 [27]
16777310	3GPP S6m	29.336 [28]
16777311	3GPP T4	29.337 [29]
16777312	3GPP 14 3GPP S6c	29.338 [30]
	3GPP SGd	29.338 [30]
16777313	3GPP S15	29.336 [30]
16777318	3GPP S15 3GPP S9a	
16777319		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]
16777349	3GPP St	29.212 [19]
16777350	3GPP PC2	29.343 [32]
16777351	3GPP Diameter Data	29.283 [39]
	Management	
16777355	3GPP V4	29.388 [40]
16777356	3GPP V6	29.389 [41]
16777358	3GPP Nta	29.154 [38]

5 Command codes

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

5.1 Command codes allocated for 3GPP

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
	11 A (1 : (: D (/ A	1100/1100	301113
300	User-Authorization-Request/-Answer	UAR/UAA	
301	Server-Assignment-Request/-Answer	SAR/SAA	
302	Location-Info-Request/-Answer	LIR/LIA	
303	Multimedia-Auth-Request/-Answer	MAR/MAA	29.229 [2]
304	Registration-Termination-Request/-	RTR/RTA	
	Answer		
305	Push-Profile-Request/-Answer	PPR/PPA	
306	User-Data-Request/-Answer	UDR/UDA	
307	Profile-Update-Request/-Answer	PUR/PUA	29.329 [4]
308	Subscribe-Notifications-Request/-Answer	SNR/SNA	29.329 [4]
309	Push-Notification-Request/-Answer	PNR/PNA	
310	Boostrapping-Info-Request/Answer	BIR/BIA	29.109 [7]
311	Message-Process-Request/Answer	MPR/MPA	29.140 [16]
312	GBAPush-Info-Request/Answer	GPR/GPI	29.109 [7]

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS
316	Update-Location-Request/Answer	ULR/ULA	
317	Cancel-Location-Request/Answer	CLR/CLA	
318	Authentication- Information -	AIR/AIA	
	Request/Answer		
319	Insert Subscriber Data-Request/Answer	IDR/IDA	29.272 [21]
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	29.212 [19]
8388731	TSSF-Notification-Request/Answer	TNR/TNA	29.212[19]
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	29.272 [21]
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	20.272 [21]
8388639	Device-Action-Request/Answer	DAR/DAA	29.368 [27]
8388640	Device-Notification-Request/Answer	DNR/DNA	
8388641	Subscriber-Information-Request/Answer	SIR/SIA CIR/CIA	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	-
8388643	Device-Trigger-Request/Answer	DTR/DTA	
8388644	Delivery-Report-Request/Answer	DRR/DRA	29.337 [29]
8388645	MO-Forward-Short-Message	OFR/OFA	
	Request/Answer		
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-	RDR/RDA	†
0000010	Request/Answer		
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	29.344 [33]
8388666	ProSe-Notify-Request/Answer	PNR/PNA	
8388713	ProSe-Initial-Location-Information- Request/Answer	PSR/PSA	
8388668	ProSe-Authorization-Request/Answer	PAR/PAA	
8388669	ProSe-Discovery-Request/Answer	PDR/PDA	1
8388670	ProSe-Match-Request/Answer	PMR/PMA	
8388671	ProSe-Match-Report-Info-Request/Answer	PIR/PIA	29.345 [34]
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	23.040 [04]
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 ProXimity-Application-Request/Answer	PXR/PXA	29.343 [32]
8388727 8388720	Non-Aggregated-RUCI-Report-	XAR/XAA NRR/NRA	
8388721	Request/Answer Aggregated-RUCI-Report-	ARR/ARA	29.217 [35]
	Request/Answer		
8388722	Modify-Uecontext-Request/Answer	MUR/MUA	
8388724	Network-Status-Request/Answer	NSR/NSA	20 452 [27]
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]

8388735	Event-Configuration-Request/Answer	ECR/ECA	29.154 [38]
8388736	Event-Reporting-Request/Answer	FRR/FRA	29.104 [30]

6 Vendor identifier

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

6.1 3GPP's vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP	Attribute Name	Data Type	Specifie
Code			d in the 3GPP
100	3GPP-WLAN-APN-Id	OctetString	TS
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234
102	3GPP-WLAN-QoS-Filter-Support	OctetString	[6]
	e AVP codes from 1 to 255 are reserved for backwards compatil		ecific
	(See 3GPP TS 29.061 [13], 3GPP TS 29.561 [42] and 3GPP T	S 29.234 [6])	
	e AVP codes from 256 to 299 are reserved for future use.		1
300	Authentication-Method	Enumerated OctetString	
301	Authentication-Information-SIM Authorization -Information-SIM	OctetString	
303	WLAN-User-Data	Grouped	
304	Charging-Data	Grouped	
305	WLAN-Access	Enumerated	
306	WLAN- 3GPP-IP-Access	Enumerated	
307	APN-Authorized	Grouped	
308	APN-ld		
309	APN-Barring-Type	Enumerated	29.234
310	WLAN-Direct-IP-Access	Enumerated	[6]
311	Session-Request-Type	Enumerated	
312	Routing-Policy	IPFilterRule	
313 314	Max-Requested-Bandwidth Charging-Characteristics	OctetString	
315	Charging-Characteristics Charging-Nodes	Integer Grouped	
316	Primary-OCS-Charging-Function-Name	DiameterIdentity	
317	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
318	3GPP-AAA-Server-Name	DiameterIdentity	
319	Maximum-Number-Accesses	Unsigned32	
Note 1: T	he AVP codes from 320 to 399 are reserved for TS 29.234	•	
	he 3GPP-AAA-Server-Name definition is moved to TS 29.273 s		
400 401	GBA-UserSecSettings Transaction-Identifier	OctetString OctetString	
402	NAF-Hostname	OctetString	
403	GAA-Service-Identifier	OctetString	
404	Key-ExpiryTime	Time	
405 406	ME-Key-Material UICC-Key-Material	OctetString OctetString	
407	GBA U-Awareness-Indicator	Enumerated	
408	BootstrapInfoCreationTime	Time	
409	GUSS-Timestamp	Time	29.109
410 411	GBA-Type UE-Id	Enumerated OctetString	[7]
412	UE-Id-Type	Enumerated	
413	UICC-App-Label	OctetString	
414	UICC-ME	Enumerated	
415 416	Requested-Key-Lifetime Private-Identity-Request	Time Enumerated	
417	GBA-Push-Info	OctetString	
418	NAF-SA-Identifier	OctetString	
419	Security-Feature-Request	OctetString	
420	Security-Feature-Response	OctetString	
500	e AVP codes from 421 to 499 are reserved for TS 29.109 Abort-Cause	Enumerated	
500	Access-Network-Charging-Address	Address	
502	Access-Network-Charging-Address Access-Network-Charging-Identifier	Grouped	
503	Access-Network-Charging-Identifier-Value	OctetString	
504	AF-Application-Identifier	OctetString	29.209
505	AF-Charging-Identifier	OctetString	[8],
506	Authorization-Token	OctetString	29.211
507	Flow-Description	IPFilterRule	[17] ,
508	Flow-Grouping	Grouped	29.214
509	Flow-Number	Unsigned32	[18]
510	Flows	Grouped	
511	Flow Usage	Enumerated	
512 513	Flow-Usage Specific-Action	Enumerated Enumerated	
010	IODECHIO-VOIIOH	Enumerateu	

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516 Max Reguested-Bandwidth-UL Unsigned32 517 Media-Component Description Grouped 518 Media-Component Number Unsigned32 520 Media-Type Enumerated 521 RR-Bandwidth Unsigned32 522 RS-Bandwidth Unsigned32 525 Service-Info-Status Cetesthring 525 Service-Info-Status Enumerated 526 Acceptable-Service-Info Grouped 527 Service-Info-Status Enumerated 528 Ary Signaling-Protocol Enumerated 529 Ar-Signaling-Protocol Enumerated 531 Sponsori-dentity OctetString 532 Ar-Sequest-Type Enumerated	514	Max-Requested-Bandwidth	Unsigned32	
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519 Media-Sub-Component AVP Grouped 520 Media-Type Enumerated 521 RR-Bandwidth Unsigned32 522 RS-Bandwidth Unsigned32 522 RS-Bandwidth Unsigned32 522 RS-Bandwidth Unsigned32 523 SIP-Forking-Indication Enumerated 524 Code-Data OctetString 525 Service-URN OctetString 526 Acceptable-Service-Info Grouped 527 Service-Info-Status Enumerated 528 Ar-Signalling-Protocol Enumerated 530 Sponsored-Connectivity-Data Grouped 531 Sponsor-Identity OctetString 531 Sponsor-Identity OctetString 532 Ar-Signaling-Protoder-Identity OctetString 533 R-Request-Type Enumerated 534 Min-Requested-Bandwidth-DL Unsigned32 535 Mir-Requested-Bandwidth-DL Unsigned32 536 Required-Access-Info			Ŭ	
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S21 RR-Bandwidth			-	
S22 RS-Bandwidth				
Signature Sign			Ŭ	
S24 Codec-Data OctelString				
Septice-URN OctelString				
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Service-Info-Status			Ŭ	
S29 AF-Signalling-Protocol Enumerated				
Separation				
Sponsored-Connectivity				
Sponsor-identity			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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533 Rx-Request-Type Enumerated 534 Min-Requested-Bandwidth-DL Unsigned32 535 Min-Requested-Bandwidth-UL Unsigned32 536 Required-Access-Info Enumerated 537 IP-Domain-Id OctetString 538 GCS-Identifier OctetString 539 Sharing-Key-DL Unsigned32 540 Sharing-Key-UL Unsigned32 541 Retry-Interval Unsigned32 542 Sponsoring-Action Enumerated 543 Max-Supported-Bandwidth-DL Unsigned32 544 Max-Supported-Bandwidth-DL Unsigned32 545 Min-Desired-Bandwidth-DL Unsigned32 546 Min-Desired-Bandwidth-DL Unsigned32 547 MCPTT-Identifier OctetString 548 Service-Authorization-Info Unsigned32 549 Media-Component-Status Unsigned32 550 Priority-Sharing-indicator Enumerated 551 AF-Requested-Data Unsigned32 552 <td></td> <td>1 1</td> <td></td> <td></td>		1 1		
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S46 Min-Desired-Bandwidth-UL				
547 MCPTT-Identifier OctetString 548 Service-Authorization-Info Unsigned32 549 Media-Component-Status Unsigned32 550 Priority-Sharing-Indicator Enumerated 551 AF-Requested-Data Unsigned32 552 Content-Version Unsigned32 553 Pre-emption-Control-Info Unsigned32 554 Extended-Max-Requested-BW-DL Unsigned32 555 Extended-Max-Requested-BW-DL Unsigned32 556 Extended-Max-Supported-BW-DL Unsigned32 557 Extended-Max-Supported-BW-DL Unsigned32 558 Extended-Min-Desired-BW-DL Unsigned32 559 Extended-Min-Requested-BW-UL Unsigned32 560 Extended-Min-Requested-BW-DL Unsigned32 561 Extended-Min-Requested-BW-UL Unsigned32 562 MCVideo-Identifier OctetString Note: The AVP codes from 563 to 599 are reserved for TS 29.209, TS 29.211 and TS 29.214 OctetString 601 Public-Identity UTF8String 602 </td <td></td> <td></td> <td></td> <td></td>				
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Extended-Max-Supported-BW-DL Unsigned32 557				
Extended-Max-Supported-BW-UL				
Extended-Min-Desired-BW-DL Unsigned32				
Extended-Min-Desired-BW-UL Unsigned32				
560Extended-Min-Requested-BW-DLUnsigned32561Extended-Min-Requested-BW-ULUnsigned32562MCVideo-IdentifierOctetStringNote: The AVP codes from 563 to 599 are reserved for TS 29.209, TS 29.211 and TS 29.214600Visited-Network-IdentifierOctetString601Public-IdentityUTF8String602Server-NameUTF8String603Server-CapabilitiesGrouped604Mandatory-CapabilityUnsigned32605Optional-CapabilityUnsigned32606User-DataOctetString607SIP-Number-Auth-ItemsUnsigned32608SIP-Authentication-SchemeUTF8String609SIP-AuthenticateOctetString610SIP-AuthenticateOctetString611SIP-Authentication-ContextOctetString612SIP-Auth-Data-ItemGrouped613SIP-Item-NumberUnsigned32				
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607 SIP-Number-Auth-items 608 SIP-Authentication-Scheme 609 SIP-Authenticate 610 SIP-Authorization 611 SIP-Authentication-Context 612 SIP-Auth-Data-Item 613 SIP-Item-Number 614 SIP-Item-Number 615 SIP-Item-Number 616 SIP-Item-Number 617 SIP-Item-Number 618 SIP-Item-Number 619 SIP-Item-Number 610 SIP-Item-Number 610 SIP-Item-Number 611 SIP-Item-Number				29 220
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612 SIP-Auth-Data-Item Grouped 613 SIP-Item-Number Unsigned32				
613 SIP-Item-Number Unsigned32	611	SIP-Authentication-Context		
	612			
614 Server-Assignment-Type Enumerated	613	SIP-Item-Number	Unsigned32	

045	Description Descrip	0	1
615	Deregistration-Reason	Grouped	
616	Reason-Code	Enumerated	
617	Reason-Info	UTF8String	
618	Charging-Information	Grouped DiameterURI	-
619	Primary-Event-Charging-Function-Name		-
620	Secondary-Event-Charging-Function-Name	DiameterURI	-
621	Primary-Charging-Collection-Function-Name	DiameterURI	
622	Secondary-Charging-Collection-Function-Name	DiameterURI	
623	User-Authorization-Type	Enumerated	1
624	User-Data-Already-Available	Enumerated	1
625	Confidentiality-Key	OctetString	
626	Integrity-Key	OctetString	
627	User-Data-Request-Type	Enumerated	
628	Supported-Features	Grouped	
629	Feature-List-ID	Unsigned32	
630	Feature-List	Unsigned32	
631	Supported-Applications	Grouped	
632	Associated-Identities	Grouped	
633	Originating-Request	Enumerated	
634	Wildcarded-Public-Identity	UTF8String	
635	SIP-Digest-Authenticate	Grouped	
636	Wildcarded-IMPU	UTF8String	
637	UAR-Flags	Unsigned32	
638	Loose-Route-Indication	Enumerated	
639	SCSCF-Restoration-Info	Grouped	
640	Path	OctetString	
641	Contact	OctetString	
642	Subscription-Info	Grouped	
643	Call-ID-SIP-Header	OctetString	
644	From-SIP-Header	OctetString	
645	To-SIP-Header	OctetString	1
646	Record-Route	OctetString	
647	Associated-Registered-Identities	Grouped	
648	Multiple-Registration-Indication	Enumerated	
649	Restoration-Info	Grouped	
650	Session-Priority	Enumerated	
651	Identity-with-Emergency-Registration	Grouped	
652	Priviledged-Sender-Indication	Enumerated	-
653	LIA-Flags	Unsigned32	
654	Initial-CSeq-Sequence-Number	Unsigned32	
655	SAR-Flags	Unsigned32	†
656	Allowed-WAF-WWSF-Identities	Grouped	
657	WebRTC-Authentication-Function-Name	UTF8String	1
658	WebRTC-Web-Server-Function-Name	UTF8String	1
	ne AVP codes from 659 to 699 are reserved for TS 29.229.	1 Officering	<u> </u>
700	User-Identity	Grouped	
700	MSISDN	OctetString	1
701		<u> </u>	1
	User-Data Data Reference	OctetString	
703	Data-Reference	Enumerated Octob String	
704	Service-Indication	OctetString	1
705	Subs-Req-Type	Enumerated	1
706	Requested-Domain	Enumerated	
707	Current-Location	Enumerated	
708	Identity-Set	Enumerated	
709	Expiry-Time	Time	29.329
710	Send-Data-Indication	Enumerated	[4]
711	DSAI-Tag	OctetString	1
712	One-Time-Notification	Enumerated	
713	Requested-Nodes	Unsigned32]
714	Serving-Node-Indication	Enumerated	
715	Repository-Data-ID	Grouped	
716	Sequence-Number	Unsigned32	
717	Pre-paging-Supported	Enumerated]
718	Local-Time-Zone-Indication	Enumerated	
719	UDR-Flags	Unsigned32	<u> </u>

700	0 0		
720	Call-Reference-Info	Grouped	
721	Call-Reference-Number	OctetString	
722	AS-Number	OctetString	
	e AVP codes from 723 to799 are reserved for TS 29.329.		
	e AVP codes from 800 to 822 are reserved for TS 32.299.		
823	Event-Type	Grouped	
824	SIP-Method	UTF8String	
825	Event	UTF8String	
826	Content-Type	UTF8String	
827	Content-Length	Unsigned32	
828	Content-Disposition	UTF8String	
829	Role-of-Node	Enumerated	
830	User-Session-Id	UTF8String	
831	Calling-Party-Address	UTF8String	
832	Called-Party-Address	UTF8String	
833	Time-Stamps	Grouped	
834	SIP-Request-Timestamp	Time	
835	SIP-Response-Timestamp	Time	
836	Application-Server	UTF8String	
837	Application-provided-called-party-address	UTF8String	
838	Inter-Operator-Identifier	Grouped	
839	Originating-IOI	UTF8String	
840	Terminating-IOI	UTF8String	
841	IMS-Charging-Identifier	UTF8String	
842	SDP-Session-Description	UTF8String	
843	SDP-Media-Component	Grouped	
844	SDP-Media-Name	UTF8String	
845	SDP-Media-Description	UTF8String	
846	CG-Address	Address	
847	GGSN-Address	Address	
848	Served-Party-IP-Address	Address	
849	Authorized-QoS	UTF8String	_
850	Application-Server-Information	Grouped	_
851	Trunk-Group-Id	Grouped	-
852	Incoming-Trunk-Group-Id	UTF8String	
853			32.299
854	Outgoing-Trunk-Group-Id Bearer-Service	UTF8String	[5]
855		OctetString	
856	Service-Id Associated-URI	UTF8String UTF8String	
		<u> </u>	
857	Charged-Party	UTF8String UTF8String	
858	PoC-Controlling-Address	5	
859	PoC-Group-Name	UTF8String	
860	Cause	Grouped	_
861	Cause-Code	Integer32	_
862	Node-Functionality	Enumerated	_
863	Service-Specific-Data	UTF8String	_
864	Originator	Enumerated	
865	PS-Furnish-Charging-Information	Grouped	_
866	PS-Free-Format-Data	OctetString	_
867	PS-Append-Free-Format-Data	Enumerated	
868	Time-Quota-Threshold	Unsigned32	
869	Volume-Quota-Threshold	Unsigned32	
870	Trigger-Type	Enumerated	
871	Quota-Holding-Time	Unsigned32	
872	Reporting-Reason	Enumerated	
873	Service-Information	Grouped	
874	PS-Information	Grouped	
875	Reserved	-	
876	IMS-Information	Grouped	
877	MMS-Information	Grouped	
878	LCS-Information	Grouped	
879	PoC-Information	Grouped	
880	MBMS-Information	Grouped	
881	Quota-Consumption-Time	Unsigned32	
882	Media-Initiator-Flag	Enumerated	\dashv
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924 MBMS-GW-SSM-IP-Address OctetString 925 MBMS-GW-SSM-IPv6-Address OctetString 926 MBMS-BMSC-SSM-UDP-Port OctetString 927 MBMS-GW-UDP-Port OctetString 928 MBMS-GW-UDP-Port-Indicator Enumerated 929 MBMS-Data-Transfer-Start Unsigned64 930 MBMS-Data-Transfer-Stop Unsigned32 931 MBMS-Flags Unsigned32 932 Restart-Counter Unsigned32 933 Diagnostic-Info Unsigned32 934 MBMS-Cell-List OctetString Note: The AVP codes from 935 to 999 are reserved for TS 29.061 Enumerated 1000 Bearer-Usage Enumerated 1001 Charging-Rule-Install Grouped 1002 Charging-Rule-Remove Grouped 1003 Charging-Rule-Definition Grouped 1004 Charging-Rule-Definition Grouped 1005 Charging-Rule-Name OctetString 1006 Event-Trigger Enumerated 1007				
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926 MBMS-BMSC-SSM-UDP-Port OctetString 927 MBMS-GW-UDP-Port OctetString 928 MBMS-GW-UDP-Port-Indicator Enumerated 929 MBMS-Data-Transfer-Start Unsigned64 930 MBMS-Data-Transfer-Stop Unsigned64 931 MBMS-Flags Unsigned32 932 Restart-Counter Unsigned32 933 Diagnostic-Info Unsigned32 934 MBMS-Cell-List OctetString Note: The AVP codes from 935 to 999 are reserved for TS 29.061 1000 Bearer-Usage Enumerated 29.212 [19] 1001 Charging-Rule-Install Grouped 1002 Charging-Rule-Bemove Grouped 1003 Charging-Rule-Base-Name UTF8String 1005 Charging-Rule-Base-Name UTF8String 1006 Event-Trigger Enumerated 1007 Metering-Method Enumerated 1008 Offline Enumerated 1009 Online Enumerated				4
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931MBMS-FlagsUnsigned32932Restart-CounterUnsigned32933Diagnostic-InfoUnsigned32934MBMS-Cell-ListOctetStringNote: The AVP codes from 935 to 999 are reserved for TS 29.0611000Bearer-UsageEnumerated29.212 [19]1001Charging-Rule-InstallGrouped1002Charging-Rule-RemoveGrouped1003Charging-Rule-DefinitionGrouped1004Charging-Rule-Base-NameUTF8String1005Charging-Rule-NameOctetString1006Event-TriggerEnumerated1007Metering-MethodEnumerated1008OfflineEnumerated1009OnlineEnumerated				Ⅎ
932Restart-CounterUnsigned32933Diagnostic-InfoUnsigned32934MBMS-Cell-ListOctetStringNote: The AVP codes from 935 to 999 are reserved for TS 29.0611000Bearer-UsageEnumerated29.212 [19]1001Charging-Rule-InstallGrouped1002Charging-Rule-RemoveGrouped1003Charging-Rule-DefinitionGrouped1004Charging-Rule-Base-NameUTF8String1005Charging-Rule-NameOctetString1006Event-TriggerEnumerated1007Metering-MethodEnumerated1008OfflineEnumerated1009OnlineEnumerated				\dashv
933Diagnostic-InfoUnsigned32934MBMS-Cell-ListOctetStringNote: The AVP codes from 935 to 999 are reserved for TS 29.0611000Bearer-UsageEnumerated29.212 [19]1001Charging-Rule-InstallGrouped1002Charging-Rule-RemoveGrouped1003Charging-Rule-DefinitionGrouped1004Charging-Rule-Base-NameUTF8String1005Charging-Rule-NameOctetString1006Event-TriggerEnumerated1007Metering-MethodEnumerated1008OfflineEnumerated1009OnlineEnumerated				4
934 MBMS-Cell-List OctetString				_
934 MBMS-Cell-List OctetString		Diagnostic-Info	Unsigned32	╝
Note: The AVP codes from 935 to 999 are reserved for TS 29.061 1000 Bearer-Usage Enumerated 29.212 [19] 1001 Charging-Rule-Install Grouped 1002 Charging-Rule-Remove Grouped 1003 Charging-Rule-Definition Grouped 1004 Charging-Rule-Base-Name UTF8String 1005 Charging-Rule-Name OctetString 1006 Event-Trigger Enumerated 1007 Metering-Method Enumerated 1008 Offline Enumerated 1009 Online Enumerated	934		OctetString	
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1002Charging-Rule-RemoveGrouped1003Charging-Rule-DefinitionGrouped1004Charging-Rule-Base-NameUTF8String1005Charging-Rule-NameOctetString1006Event-TriggerEnumerated1007Metering-MethodEnumerated1008OfflineEnumerated1009OnlineEnumerated				┪
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1004Charging-Rule-Base-NameUTF8String1005Charging-Rule-NameOctetString1006Event-TriggerEnumerated1007Metering-MethodEnumerated1008OfflineEnumerated1009OnlineEnumerated				
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1007Metering-MethodEnumerated1008OfflineEnumerated1009OnlineEnumerated				
1008OfflineEnumerated1009OnlineEnumerated				
1009 Online Enumerated				
1010 Precedence Unsigned32	1009			
	1010	Precedence	Unsigned32	

1011	Reporting-Level	Enumerated	
1012	TFT-Filter	IPFilterRule	
1013	TFT-Packet-Filter-Information	Grouped	
1014	ToS-Traffic-Class	OctetString	
1016	QoS-Information	Grouped	
1018	Charging-Rule-Report	Grouped	
1019	PCC-Rule-Status	Enumerated	
1020	Bearer-Identifier	OctetString	
1021 1022	Bearer-Operation Access-Network-Charging-Identifier-Gx	Enumerated Grouped	
1022	Bearer-Control-Mode	Enumerated	
1023	Network-Request-Support	Enumerated	
1024	Guaranteed-Bitrate-DL	Unsigned32	
1026	Guaranteed Birate BE Guaranteed-Bitrate-UL	Unsigned32	
1027	IP-CAN-Type	Enumerated	
1028	QoS-Class-Identifier	Enumerated	
1029	QoS-Negotiation	Enumerated	
1030	QoS-Upgrade	Enumerated	
1031	Rule-Failure-Code	Enumerated	
1032	RAT-Type	Enumerated	
1033	Event-Report-Indication	Grouped	
1034	Allocation-Retention-Priority	Grouped	
1035	CoA-IP-Address	Address	
1036	Tunnel-Header-Filter	IPFilterRule	
1037	Tunnel-Header-Length	Unsigned32	
1038	Tunnel-Information	Grouped	
1039	CoA-Information	Grouped	
1040	APN-Aggregate-Max-Bitrate-DL	Unsigned32	
1041	APN-Aggregate-Max-Bitrate-UL	Unsigned32	
1042	Revalidation-Time	Time	
1043	Rule-Activation-Time	Time	
1044	Rule-DeActivation-Time	Time	
1045 1046	Session-Release-Cause Priority-Level	Enumerated Unsigned32	
1046	Pre-emption-Capability	Enumerated	
1047	Pre-emption-Vulnerability	Enumerated	
1048	Default-EPS-Bearer-QoS	Grouped	
1050	AN-GW-Address	Address	
1051	QoS-Rule-Install	Grouped	
1052	QoS-Rule-Remove	Grouped	
1053	QoS-Rule-Definition	Grouped	
1054	QoS-Rule-Name	OctetString	
1055	QoS-Rule-Report	Grouped	
1056	Security-Parameter-Index	OctetString	
1057	Flow-Label	OctetString	
1058	Flow-Information	Grouped	
1059	Packet-Filter-Content	IPFilterRule	
1060	Packet-Filter-Identifier	OctetString	
1061	Packet-Filter-Information	Grouped	
1062	Packet-Filter-Operation	Enumerated	
1063	Resource-Allocation-Notification	Enumerated	
1064	Session-Linking-Indicator	Enumerated	
1065	PDN-Connection-ID	OctetString	
1066	Monitoring-Key	OctetString	
1067	Usage-Monitoring-Information	Grouped	
1068	Usage-Monitoring-Level	Enumerated	
1069 1070	Usage-Monitoring-Report	Enumerated	
1070	Usage-Monitoring-Support CSG-Information-Reporting	Enumerated	
1071	Packet-Filter-Usage	Enumerated Enumerated	
1072	Charging-Correlation-Indicator	Enumerated	
1073	QoS-Rule-Base-Name	UTF8String	
1074	Routing-Rule-Remove	Grouped	
1076	Routing-Rule-Definition	Grouped	
1077	Routing-Rule-Identifier	OctetString	
	. •		

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1078	Routing-Filter	Grouped	
1079	Routing-IP-Address	Address	
1080	Flow-Direction	Enumerated	
1081	Routing-Rule-Install	Grouped	
1082	Credit-Management-Status	Unsigned32	
1085	Redirect-Information	Grouped	
1086	Redirect- Support	Enumerated	
1087	TDF-Information	Grouped	
1088	TDF-Application-Identifier	OctetString	
1089	TDF-Destination-Host	DiameterIdentity	
1090	TDF-Destination-Realm	DiameterIdentity	
1091	TDF-IP-address	Address	
1092	ADC-Rule-Install	Grouped	
1093	ADC-Rule-Remove	Grouped	
1094	ADC-Rule-Definition	Grouped	
1095	ADC-Rule-Base-Name	UTF8String	
1096	ADC-Rule-Name	OctetString	
1097	ADC-Rule-Report	Grouped	
1098	Application-Detection-Information	Grouped	
1099	PS-to-CS-Session-Continuity	Enumerated	<u> </u>
	e AVP codes from 1083 to 1084 are reserved for TS 29.212	Crauna	20 140 [40]
1100	Served-User-Identity	Groupe	29.140 [16]
1101 1102	VASP-ID VAS-ID	UTF8Str UTF8String	
1102			
1103	Trigger-Event Sender-Address	Enumerated UTF8String	
1104			
1105	Initial-Recipient-Address	Grouped Grouped	
1106	Result-Recipient-Address Sequence-Number	Unsigned32	
1107	Recipient-Address	UTF8String	
1108	Routeing-Address	UTF8String	
11109	Originating-Interface	Enumerated	
1111	Delivery-Report	Enumerated	
1112	Read-Reply	Enumerated	
1113	Sender-Visibility	Enumerated	
1113	Service-Key	UTF8String	
1115	Billing-Information	UTF8String	
1116	Status	Grouped	
1117	Status-Code	UTF8String	
1118	Status-Text	UTF8String	
	e AVP codes from 1119 to 1199 are reserved for TS 29.140	Officoning	
1200	Domain-Name	UTF8String	32.299 [5]
1201	Recipient-Address	Grouped	02.200 [0]
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	
1217	Adaptations	Enumerated	
1218	Applic-ID	UTF8String	
1219	Aux-Applic-Info	UTF8String	
1220	Content-Class	Enumerated	
1221	DRM-Content	Enumerated	
1222	Read-Reply-Report-Requested	Enumerated	
1223	Reply-Applic-ID	UTF8String	
			

1224	File-Repair-Supported	Enumerated
1225	MBMS-User-Service-Type	Enumerated
1226	Unit-Quota-Threshold	Unsigned32
1227	PDP-Address	Address
1228	SGSN-Address	Address
1229	PoC-Session-Id	UTF8String
1230	Deferred-Location-Even-Type	UTF8String
1231	LCS-APN	UTF8String
1232	LCS-Client-Id	Grouped
1233	LCS-Client-Dialed-By-MS	UTF8String
1234	LCS-Client-External-ID	UTF8String
1235	LCS-Client-Name	Grouped
1236	LCS-Data-Coding-Scheme	UTF8String
1237	LCS-Format-Indicator	Enumerated
1238	LCS-Name-String	UTF8String
1239	LCS-Requestor-Id	Grouped
1240	LCS-Requestor-Id-String	UTF8String
1241	LCS-Client-Type	Enumerated
1242	Location-Estimate	OctetString
1243	Location-Estimate-Type	Enumerated
1244	Location-Type	Grouped
1245	Positioning-Data	UTF8String
1246	Reserved	
1247	PDP-Context-Type	Enumerated
1248	MMBox-Storage-Requested	Enumerated
1249	Service-Specific-Info	Grouped
1250	Called-Asserted-Identity	UTF8String
1251	Requested-Party-Address	UTF8String
1252	PoC-User-Role	Grouped
1253	PoC-User-Role-IDs	UTF8String
1254	PoC-User-Role-info-Units	Enumerated
1255	Talk-Burst-Exchange	Grouped
1256	Service-Generic-Information	Grouped
1257	Service-Specific-Type	Unsigned32
1258	Event-Charging-TimeStamp	Time
1259	Participant-Access-Priority	Enumerated
1260	Participant-Group	Grouped
1261	PoC-Change-Conditions	Enumerated
1262	PoC-Change-Time	Time
1263	Access-Network-Information	OctetString
1264	Trigger	Grouped
1265	Base-Time-Interval	Unsigned32
1266	Envelope	Grouped
1267	Envelope-End-Time	Time
1268	Envelope-Reporting	Enumerated
1269	Envelope-Start-Time	Time
1270	Time-Quota-Mechanism	Grouped
1271	Time-Quota-Type	Enumerated
1272	Early-Media-Description	Grouped
1273	SDP-TimeStamps	Grouped
1274	SDP-Offer-Timestamp	Time
1275	SDP-Answer-Timestamp	Time
1276	AF-Correlation-Information	Grouped
1277	PoC-Session-Initiation-type	Enumerated
1278	Offline-Charging	Grouped
1279	User-Participating-Type	Enumerated
1280	Alternate-Charged-Party-Address	UTF8String
1281	IMS-Communication-Service-Identifier	UTF8String
1282	Number-Of-Received-Talk-Bursts	Unsigned32
1283	Number-Of-Talk-Bursts	Unsigned32
1284	Received-Talk-Burst-Time	Unsigned32
1285	Received-Talk-Burst-Volume	Unsigned32
1000		
1286	Talk-Burst Valume	Unsigned32
1286 1287 1288	Talk-Burst-Time Talk-Burst-Volume Media-Initiator-Party	Unsigned32 Unsigned32 UTF8String

Note: Th	e AVP codes from 1289 to 1299 are reserved for TS 32.299		
1300	PC5-Radio-Technology	Enumerated	
1301	RAN-End-Time	Time	1
1302	RAN-Secondary-RAT-Usage-Report	Grouped	-
1303	RAN-Start-Time	Time	
1304	Secondary-RAT-Type	OctetString	1
1305	Civic-Address-Information	UTF8String	1
1306	WLAN-Operator-Id	Grouped	
1307	WLAN-Operator-Name	UTF8String	
1308	WLAN-PLMN-Id	UTF8String	
1309	API-Content	UTF8String	
1310	API-Direction	Enumerated	32.299 [5]
1311	API-Identifier	OctetString	
1312	API-Invocation-Timestamp	Time	1
1313	API-Result-Code	Unsigned32	
1314	API-Size	Unsigned64	1
1315	API-Network-Service-Node	Enumerated	
1316	Exposure-Function-API-Information	Grouped	
1317	SCEF-Address	Address	-
1318	TLTRI	Unsigned32	1
1319	TTRI	Unsigned32	1
	e AVP codes from 1320 to 1399 are reserved for TS 32.229.	on signed of	I
1400	Subscription-Data	Grouped	29.272 [21]
1401	Terminal-Information	Grouped	
1402	IMEI	UTF8String	†
1403	Software-Version	UTF8String	†
1404	QoS-Subscribed	UTF8String	†
1405	ULR-Flags	Unsigned32	
1406	ULA-Flags	Unsigned32	
1407	Visited PLMN Id	OctetString	
1408	Requested-EUTRAN-Authentication-Info	Grouped	
1409	Requested-UTRAN- GERAN-Authentication-Info	Grouped	
1410	Number-Of-Requested-Vectors	Unsigned32	
1411	Re-Synchronization-Info	OctetString	
1412	Immediate-Response-Preferred	Unsigned32	
1413	Authentication-Info	Grouped	
1414	E-UTRAN-Vector	Grouped	
1415	UTRAN-Vector	Grouped	
1416	GERAN-Vector	Grouped	
1417	Network-Access-Mode	Enumerated	
1418	HPLMN-ODB	Enumerated	
1419	Item-Number	Unsigned32	
1420	Cancellation-Type	Enumerated	
1421	DSR-Flags	Unsigned32	†
1422	DSA-Flags	Unsigned32	†
1423	Context-Identifier	Unsigned32	†
1424	Subscriber-Status	Enumerated	†
1425	Operator-Determined-Barring	Unsigned32	†
1426	Access-Restriction-Data	Unsigned32	†
1427	APN-OI-Replacement	UTF8String	†
1428	All-APN-Configurations-Included-Indicator	Enumerated	†
1429	APN-Configuration-Profile	Grouped	†
1430	APN-Configuration	Grouped	†
1431	EPS-Subscribed-QoS-Profile	Grouped	†
1431	VPLMN-Dynamic-Address-Allowed	Enumerated	†
1433	STN-SR	OctetString	†
1434	Alert-Reason	Enumerated	†
1435	AMBR	Grouped	†
1436	CSG-Subscription-Data	Grouped	†
1437	CSG-Id	Unsigned32	†
1438	PDN-GW-Allocation-Type	Enumerated	†
1439	Expiration-Date	Time	†
1440	RAT-Frequency-Selection-Priority-ID	Unsigned32	†
1441	IDA-Flags	Unsigned32	†
1442	PUA-Flags	Unsigned32	†
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1112	NOD Flore	Lineiane d22	
1443	NOR-Flags	Unsigned32	
1444	User-Id	UTF8String	
1445	Equipment-Status	Enumerated	
1446	Regional-Subscription-Zone-Code	OctetString	
1447	RAND	OctetString	
1448	XRES	OctetString	
1449	AUTN	OctetString	
1450	KASME	OctetString	
1451	Reserved	-	
1452	Trace-Collection-Entity	Address	
1453	Kc	OctetString	
1454	SRES	OctetString	
1455	Reserved	-	
1456	PDN-Type	Enumerated	
1457	Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated	
1458	Trace-Data	Grouped	
1459	Trace-Reference	OctetString	
1460	Reserved	-	
1461	Reserved	-	
1462	Trace-Depth	Enumerated	
1463	Trace-NE-Type-List	OctetString	
1464	Trace-Interface-List	OctetString	
1465	Trace-Event-List	OctetString	
1466	OMC-Id	OctetString	
1467	GPRS-Subscription-Data	Grouped	
1468	Complete-Data-List-Included-Indicator	Enumerated	
1469	PDP-Context	Grouped	
1470	PDP-Type	OctetString	
1471	3GPP2-MEID	OctetString	
1472	Specific-APN-Info	Grouped	
1473	LCS-Info	Grouped	
1474	GMLC-Number	OctetString	
1475	LCS-PrivacyException	Grouped	
1476	SS-Code	OctetString	
1477	SS-Status	OctetString	
1478	Notification-To-UE-User	Enumerated	
1479	External-Client	Grouped	
1480	Client-Identity	OctetString	
1481	GMLC-Restriction	Enumerated	
1482	PLMN-Client	Enumerated	
1483	Service-Type	Grouped	
1484	ServiceTypeIdentity	Unsigned32	
1485	MO-LR	Grouped	
1486	Teleservice-List	Grouped	
1487	TS-Code	Enumerated	
1487	Call-Barring-Info	Grouped	
	SGSN-Number		
1489		OctetString	
1490	IDR-Flags	Unsigned32	
1491	ICS-Indicator	Enumerated	
1492	IMS-Voice-Over-PS-Sessions-Supported	Enumerated	
1493	Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated	
1494	Last-UE-Activity-Time	Time	
1495	EPS-User-State	Grouped	
1496	EPS-Location-Information	Grouped	
1497	MME-User-State	Grouped	
1498	SGSN-User-State	Grouped	
1499	User-State	Enumerated	
1500	Non-3GPP-User-Data	Grouped	
1501	Non-3GPP-IP-Access	Enumerated	
1501	Non-3GPP-IP-Access-APN	Enumerated	
1502	AN-Trusted	Enumerated	29.273 [20]
1503	ANID	UTF8String	23.213 [20]
	Trace-Info		
1505	MIP-FA-RK	Grouped	
1506	INIL-LW-UV	OctetString	

1507	MIP-FA-RK-SPI	Unsigned32		
1508	PPR-Flags	Unsigned32		
1509	WLAN-Identifier	Grouped		
1510	TWAN-Access-Info	Grouped		
1511	Access-Authorization-Flags	Unsigned32		
1512	TWAN-Default-APN-Context-Id	Unsigned32		
1513	Reserved	-		
1514	Reserved	-		
1515	Reserved	-		
1516	Full-Network-Name	OctetString		
1517	Short-Network-Name	OctetString		
1518	AAA-Failure-Indication	Unsigned32		
1519	Transport-Access-Type	Enumerated		
1520	DER-Flags	Unsigned32		
1521	DEA-Flags	Unsigned32		
1522	RAR-Flags	Unsigned32		
1523	DER-S6b-Flags	Unsigned32		
1524	SSID	UTF8String		
1525	HESSID	UTF8String		
1526	Access-Network-Info	Grouped		
1527 1528	TWAN-Connection-Mode TWAN-Connectivity-Parameters	Unsigned32 Grouped		
1528	Connectivity-Plags	Unsigned32		
1530	TWAN-PCO	OrtetSt	rina	
1531	TWAG-CP-Address	Addres	_	
1532	TWAG-UP-Address	UTF8St		
1533	TWAN-S2a-Failure-Cause	Unsigne		
1534	SM-Back-Off-Timer	Unsigne		
1535	WLCP-Key	OctetSti		
318	3GPP-AAA-Server-Name	Diameterlo	_	
1536	Origination-Time-Stamp	Unsigne		
1537	Maximum-Wait-Time	Unsigne		
1538	Emergency-Services	Unsigne		
1539	AAR-Flags	Unsigne		
1540	IMEI-Check-In-VPLMN-Result	Unsigne	d32	
1541	ERP-Authorization	Unsigne	d32	
	The AVP codes from 1542 to 1599 are reserved for TS 29.273			
	The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP	o TS 29.234 and is no	w defined in 3GPF	TS
	om Rel-12.			
1600	MME-Location-Information	Groupe		
1601	SGSN-Location-Information	Groupe		
1602	E-UTRAN-Cell-Global-Identity	OctetSt		
1603	Tracking-Area-Identity	OctetSt		
1604	Cell-Global-Identity	OctetSt		
1605	Routing-Area-Identity	OctetSt		
1606 1607	Location-Area-Identity Service-Area-Identity	OctetSt		
1607	Geographical-Information	OctetStr OctetStr		
1609	Geodetic-Information	OctetSt		
1610	Current-Location-Retrieved	Enumera	_	
1611	Age-Of-Location-Retrieved Age-Of-Location-Information	Unsigne		
1612	Active-APN	Groupe		29.272
1613	SIPTO-Permission	Enumera		[21]
1614	Error-Diagnostic	Enumera		[- 1]
1615	UE-SRVCC-Capability	Enumera		
1616	MPS-Priority	Unsigne		
1617	VPLMN-LIPA-Allowed	Enumera		
1618	LIPA-Permission	Enumera		
1619	Subscribed-Periodic-RAU-TAU-Timer	Unsigne		
1620	Ext-PDP-Type	OctetSt		
1621	Ext-PDP-Address	Addres	•	
1622	MDT-Configuration	Groupe		
1623	Job-Type	Enumera		
1624	Area-Scope	Groupe		
1625	List-Of-Measurements	Unsigne		

1626	Reporting-Trigger	Unsigned32
1627	Report-Interval	Enumerated
1628	Report-Amount	Enumerated
1629	Event-ThresholdRSRP	Unsigned32
1630	Event-ThresholdRSRQ	Unsigned32
1631	Logging-Interval	Enumerated
1632	Logging-Duration	Enumerated
1633	Relay-Node-Indicator	Enumerated
1634	MDT-User-Consent	Enumerated
1635	PUR-Flags	Unsigned32
1636	Subscribed-VSRVCC	Enumerated
1637	Equivalent-PLMN-List	Grouped
1638	CLR-Flags	Unsigned32
1639	UVR-Flags	Unsigned32
1640	UVA-Flags	Unsigned32
1641	VPLMN-CSG-Subscription-Data	Grouped
1642	Time-Zone	UTF8String
1643	A-MSISDN	OctetString
1644	Reserved	-
1645	MME-Number-for-MT-SMS	OctetString
1646	Reserved	-
1647	Reserved	-
1648	SMS-Register-Request	Enumerated
1649	Local-Time-Zone	Grouped
1650	Daylight-Saving-Time	Enumerated
1651	GMLC-Info	Grouped
1652	GMLC-Name	DiameterIdentity
1653	GMLC-Realm	DiameterIdentity
1654	Subscription-Data-Flags	Unsigned32
1655	Measurement-Period-LTE	Enumerated
1656	Measurement-Period-UMTS	Enumerated
1657	Collection-Period-RRM-LTE	Enumerated
1658	Collection-Period-RRM-UMTS	Enumerated
1659	Positioning-Method	OctetString
1660	Measurement-Quantity	OctetString
1661	Event-Threshold-Event-1F	Integer32
1662	Event-Threshold-Event-1I	Integer32
1663 1664	Restoration-Priority	Unsigned32
	SGs-MME-Identity	UTF8String
1665	SIPTO-Local-Network-Permission Coupled-Node-Diameter-ID	Unsigned32
1666 1667	WLAN-offloadability	DiameterIdentity
1668	WLAN-offloadability-EUTRAN	Grouped Unsigned32
1669	WLAN-offloadability-UTRAN	Unsigned32
1670	Reset-ID	OctetString
1671	MDT-Allowed-PLMN-Id	OctetString
1672	Adjacent-PLMNs	Grouped
1673	Adjacent-Access-Restriction-Data	Grouped
1674	DL-Buffering-Suggested-Packet-Count	Integer32
1675	IMSI-Group-Id	Grouped
1676	Group-Service-Id	Unsigned32
1677	Group-PLMN-Id	OctetString
1678	Local-Group-Id	OctetString
1679	AIR-Flags	Unsigned32
1680	UE-Usage-Type	Unsigned32
1681	Non-IP-PDN-Type-Indicator	Enumerated
1682	Non-IP-Data-Delivery-Mechanism	Unsigned32
1683	Additional-Context-Identifier	Unsigned32
1684	SCEF-Realm	DiameterIdentity
1685	Subscription-Data-Deletion	Grouped
1686	Preferred-Data-Mode	Unsigned32
1687	Emergency-Info	Grouped
1688	V2X-Subscription-Data	Grouped
1689	V2X-Permission	Unsigned32
1690	PDN-Connection-Continuity	Unsigned32
. 500	1. =	5g540 <u>L</u>

1691	eDRX-Cycle-Length	Grouped	
1692	eDRX-Cycle-Length-Value	OctetString	
1693	UE-PC5-AMBR	Unsigned32	
1694	MBSFN-Area	Grouped	
1695	MBSFN-Area-ID	Unsigned32	
1696	Carrier-Frequency	Unsigned32	
1697	RDS-Indicator	Enumerated	
1698	Service-Gap-Time	Unsigned32	-
1699	Aerial-UE-Subscription-Information	Unsigned32	-
1700		Unsigned64	_
	Broadcast-Location-Assistance-Data-Types		_
1701	Paging-Time-Window	Grouped	
1702	Operation-Mode	Unsigned32	
1703	Paging-Time-Window-Length	OctetString	
1704	Core-Network-Restrictions	Unsigned32	
1705	eDRX-Related-RAT	Grouped	
1706	Interworking-5GS-Indicator	Enumerated	
Note: The	e AVP codes from 1707 to 1799 are reserved for TS 29.272.		•
2000	SMS-Information	Grouped	
2001	Data-Coding-Scheme	Integer32	
2002	Destination-Interface	Grouped	-
2002	Interface-Id	UTF8String	=
		9	_
2004	Interface-Port	UTF8String	-
2005	Interface-Text	UTF8String	
2006	Interface-Type	Enumerated	
2007	SM-Message-Type	Enumerated	
2008	Originating-SCCP-Address	Address	
2009	Originator-Interface	Grouped	
2010	Recipient-SCCP-Address	Address	
2011	Reply-Path-Requested	Enumerated	
2012	SM-Discharge-Time	Time	
2013	SM-Protocol-ID	OctetString	
2013	SM-Status	OctetString	_
			4
2015	SM-User-Data-Header	OctetString	_
2016	SMS-Node	Enumerated	
2017	SMSC-Address	Address	
2018	Client-Address	Address	
2019	Number-of-Messages-Sent	Unsigned32	
2020	Low-Balance-Indication	Enumerated	
2021	Remaining-Balance	Grouped	
2022	Refund-Information	OctetString	
2023	Carrier-Select-Routing-Information	UTF8String	32.299
2024	Number-Portability-Routing-Information	UTF8String	[5]
2025	PoC-Event-Type	Enumerated	رد)
2026	Recipient-Info	Grouped	=
2027		Grouped	_
	Originator-Received-Address		_
2028	Recipient-Received-Address	Grouped	
2029	SM-Service-Type	Enumerated	
2030	MMTel-Information	Grouped	
2031	MMTel-Sservice-Type	Unsigned32	
2032	Service-Mode	Unsigned32	
2033	Subscriber-Role	Enumerated	
2034	Number-Of-Diversions	Unsigned32	
2035	Associated-Party-Address	UTF8String	1
2036	SDP-Type	Enumerated	
2037	Change-Condition	Integer32	-
2037	Change-Time	Time	-
2039	Diagnostics	Integer32	
2040	Service-Data-Container	Grouped	_
2041	Start-Time	Time	
2042	Stop-Time	Time	
2043	Time-First-Usage	Time	
2044	Time-Last-Usage	Time	
2045	Time-Usage	Unsigned32	
2046	Traffic-Data-Volumes	Grouped	
2047	Serving-Node-Type	Enumerated	1
	1-09.1000 1,700	Enginoratoa	1

Supplementary-Service	00.10			
2005 PDN-Connection-Charging-ID	2048	Supplementary-Service	Grouped	
2051 Dynamic-Address-Flag				
2005 Accumulated-Cost Grouped 2005 Acc_Cost-Information Grouped 2005 Acc_Cost-Information Grouped 2005 Acc_Cost-Information Grouped 2005 Acc_Request-Type Enumerated 2005 Current-Tariff Grouped 2007 Next-Tariff Grouped 2007 Next-Tariff Grouped 2007 Next-Tariff Grouped 2008 Cale-Factor Grouped 2009 Cale-Factor Grouped 2009 Cale-Factor Grouped 2006 Tariff-Information Tariff-Infor				
2053 AcC-Cost-Information Grouped				
2054 AoC-Information Grouped 2055 Current-Tariff Grouped 2056 Current-Tariff Grouped 2057 Next-Tariff Grouped 2058 Rate-Element Grouped 2059 Scale-Factor Grouped 2060 Tariff-Information Grouped 2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unisigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension UTF8String 2100 Toeserved 2101 Application-Server-ID UTF8String 2102 Application-Server-ID UTF8String 2103 Application-Server-ID UTF8String 2104 Delivery-Status UTF8String 2105 reserved -				
2055				
2005 Current-Tariff				
2057 Next-Tarff				
2058 Rate-Element				
2008 Scale-Factor Grouped Company Co				
2061				
2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF6String 2065 SGW-Change Enumerated Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated Enumerated 2067 SGW-Address Address Addr				
2062 Incremental-Cost	2060	Tariff-Information		
2063	2061		Grouped	
2064 Node-Id	2062	Incremental-Cost	Grouped	
Description	2063	Local-Sequence-Number	Unsigned32	
Description	2064	Node-Id	UTF8String	
2067 SGW-Address Address Dynamic-Address-Flag-Extension Enumerated	2065	SGW-Change	Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.	2066	Charging-Characteristic-Selection-Mode	Enumerated	
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.		0 0		
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299.				
2100			·	•
Application-Server-ID			-	
2102 Application-Service-Type			UTF8String	
2103				
2104				
2105 reserved -				
2106			-	
2107 reserved			_	
2108			-	
2110 M-Information Grouped Companies Grouped Companies Grouped Companies Grouped Companies Grouped Companies Companies Grouped Companies Companies Grouped Companies C			_	
Page			_	
2111 Number-Of-Messages-Successfully-Exploded Unsigned32 2112 Number-Of-Messages-Successfully-Sent Unsigned32 2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Exploded Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-ID UTF8String 2118 Charge-Reason-Code Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 2200 Subsession-Decision-Info Grouped 2201 Subsession-Decision-Info Grouped 2202 Subsession-Enforcement-Info Grouped 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated 2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity 2300 ISP-Request-Timestamp-Fra			Grouped	[5]
2112 Number-Of-Messages-Successfully-Sent				
2113 Total-Number-Of-Messages-Exploded Unsigned32 2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-provider-ID UTF8String 2118 Charge-Reason-Code Enumerated Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299.				
2114 Total-Number-Of-Messages-Sent Unsigned32 2115 DCD-Information Grouped 2116 Content-ID UTF8String 2117 Content-ID UTF8String 2118 Charge-Reason-Code Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. Grouped 2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity 2208 DRA-Binding Enumerated Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. 2300 Inserved 2300 reserved - 2301 31P-Response-Timestamp-Fraction Unsigned32 Unsigned32 2303 SIP-Response-Timestamp-Fraction<				
2115 DCD-Information Grouped				
2116 Content-ID		O Company of the comp		
2117 Content-provider-ID UTF8String 2118 Charge-Reason-Code Enumerated Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. Funderated 2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity 2208 DRA-Binding Enumerated Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. 2300 2300 ISIP-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 UTF8				
2118 Charge-Reason-Code				
Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Inforcement-Info Grouped 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity 2208 DRA-Binding Enumerated Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. 2300 reserved -				
2200 Subsession-Decision-Info Grouped 2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity 2208 DRA-Binding Enumerated Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. - 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<			Enumerateu	
2201 Subsession-Enforcement-Info Grouped 2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity 2208 DRA-Binding Enumerated Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. - 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			Crouned	
2202 Subsession-Id Unsigned32 2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity 2208 DRA-Binding Enumerated Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. - 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-Se				
2203 Subsession-Operation Enumerated 2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity 2208 DRA-Binding Enumerated Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. - 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				
2204 Multiple-BBERF-Action Enumerated 2205 UE-Local-IPv6-Prefix OctetString 2206 DRA-Deployment Enumerated 2207 PCRF-Address DiameterIdentity 2208 DRA-Binding Enumerated Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. - 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				
2204 Multiple-BBERTAction Enumerated 2205 UE-Local-IPv6-Prefix OctetString Enumerated 2206 DRA-Deployment Enumerated Enumerated 2207 PCRF-Address DiameterIdentity DRA-Binding Enumerated DiameterIdentity DiameterIdentity Enumerated DiameterIdentity DiameterIdentity Enumerated DiameterIdentity DiameterIdentity DiameterIdentity DiameterIdentity DiameterIdentity DiameterIdentity DiameterIdentity Enumerated DiameterIdentity Dia				29.215
2206 DRA-Deployment Enumerated				
2207PCRF-AddressDiameterIdentity2208DRA-BindingEnumeratedNote: The AVP codes from 2209 to 2299 are reserved for TS 29.2152300reserved-2301SIP-Request-Timestamp-FractionUnsigned322302SIP-Response-Timestamp-FractionUnsigned322303Online-Charging-FlagEnumerated2304CUG-InformationOctetString2305Real-Time-Tariff-InformationGrouped2306Tariff-XMLUTF8String2307MBMS GW-AddressAddress2308IMSI-Unauthenticated-FlagEnumerated2309Account-ExpirationTime2310AoC-FormatEnumerated2311AoC-ServiceEnumerated				
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				
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			Enumerated	
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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				
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				
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				
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				
2306Tariff-XMLUTF8String2307MBMS GW-AddressAddress2308IMSI-Unauthenticated-FlagEnumerated2309Account-ExpirationTime2310AoC-FormatEnumerated2311AoC-ServiceEnumerated				
2306 Tariff-XML 2307 MBMS GW-Address 2308 IMSI-Unauthenticated-Flag 2309 Account-Expiration 2310 AoC-Format 2311 AoC-Service [5]				32 200
2308 IMSI-Unauthenticated-Flag Enumerated 2309 Account-Expiration Time 2310 AoC-Format Enumerated 2311 AoC-Service Enumerated				
2309Account-ExpirationTime2310AoC-FormatEnumerated2311AoC-ServiceEnumerated				[2]
2310 AoC-Format Enumerated 2311 AoC-Service Enumerated		IMSI-Unauthenticated-Flag	Enumerated	
2311 AoC-Service Enumerated		Account-Expiration	Time	
2311 AoC-Service Enumerated	2310	AoC-Format	Enumerated	
	2212		Grouped	

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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	
	e AVP codes from 2324 to 2399 are reserved for TS 32.299.		
2400	LMSI	OctetString	
2401	Serving-Node	Grouped	
2402	MME-Name	DiameterIdentity	
2403	MSC-Number	OctetString	
2404	LCS-Capabilities-Sets	Unsigned32	
2405	GMLC-Address	Address	29.173
2406	Additional-Serving-Node	Grouped	[25]
2407	PPR-Address	Address	
2408	MME-Realm	DiameterIdentity	
2409	SGSN-Name	DiameterIdentity	
2410	SGSN-Realm	DiameterIdentity	
2411	RIA-Flags	Unsigned32	
Note: Th	e AVP codes from 2412 to 2499 are reserved for TS 29.173.		•
2500	SLg-Location-Type	Enumerated	
2501	LCS-EPS-Client-Name	Grouped	
2502	LCS-Requestor-Name	Grouped	
2503	LCS-Priority	Unsigned32	
2504	LCS-QoS	Grouped	
2505	Horizontal-Accuracy	Unsigned32	
2506	Vertical-Accuracy	Unsigned32	
2507	Vertical-Requested	Enumerated	
2508	Velocity-Requested	Enumerated	
2509	Response-Time	Enumerated	
2510	Supported-GAD-Shapes	Unsigned32	
2511	LCS-Codeword	UTF8String	
2512	LCS-Privacy-Check	Enumerated	
2512	Accuracy-Fulfilment-Indicator	Enumerated	
2513	Age-Of-Location-Estimate	ł .	
	Velocity-Estimate	Unsigned32 OctetString	
2515	,		
2516	EUTRAN-Positioning-Data ECGI	OctetString	
2517		OctetString	
2518	Location-Event	Enumerated	
2519	Pseudonym-Indicator	Enumerated	29.172
2520	LCS-Service-Type-ID	Unsigned32	[24]
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	
	•		t

2540	2540	Tp : " + pp + (- ; :		1
2542 Reporting-PLMN-List		Periodic-LDR-Information	Grouped	
2543 Reporting-PLMN-List				
PLMN-ID-List				
2546 PLR-Flags				
Description				
2548 Termination-Cause				
2549 Termination-Cause	2546	PLA-Flags	Unsigned32	
2559	2547	Deferred-MT-LR-Data	Grouped	
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Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299.				
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	merated [26]
	rouped
	Time
	igned32
Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219.	Ignouoz
3000 reserved	
	rouped
	ouped
	ouped
	etString 29.368
	merated [27]
	merated
	igned32
	merated
3009 Delivery-Outcome Enu	merated
	igned32

2011	Old Deference Number	Linaiana ad22	1
3011	Old-Reference-Number	Unsigned32	_
3012	Feature-Supported-In-Final-Target	Unsigned32	
	e AVP codes from 3013 to 3099 are reserved for TS 29.368.	0 + 101 :	<u> </u>
3100	IP-SM-GW-Number	OctetString	
3101	IP-SM-GW-Name	DiameterIdentity	
3102	User-Identifier	Grouped	
3103	Service-ID	Enumerated	
3104	SCS-Identity	OctetString	
3105	Service-Parameters	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	
3122	Monitoring-Event-Configuration	Grouped	
3123	Monitoring-Event-Report	Grouped	
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	29.336
3131	Maximum-Detection-Time	Unsigned32	[28]
3132	Reachability-Type	Unsigned32	
3133	Maximum-Latency	Unsigned32	
3134	Maximum-Response-Time	Unsigned32	
3135	Location-Information-Configuration	Grouped	_
3136	MONTE-Location-Type	Unsigned32	
3137	Accuracy	Unsigned32	_
3138	Association-Type	Ŭ	_
3139		Unsigned32 Unsigned32	_
	Roaming-Information		_
3140	Reachability-Information	Unsigned32	
3141	IMEI-Change	Unsigned32	
3142	Monitoring-Event-Config-Status	Grouped	_
3143	Supported-Service	Grouped	_
3144	Supported-Monitoring-Event	Unsigned64	\dashv
3145	CIR-Flags	Unsigned32	_
3146	Service-Result	Grouped	
3147	Service-Result-Code	Unsigned32	_
3148	Reference-ID-Validity-Time	Time	
3149	Event-handling	Unsigned32	_
3150	NIDD-Authorization-Request	Grouped	
3151	NIDD-Authorization-Response	Grouped	
3152	Service-Report	Grouped	
3153	Node-Type	Unsigned32	
3154	S6t-HSS-Cause	Unsigned32	
3155	Enhanced-Coverage-Restriction	Grouped	
3156	Enhanced-Coverage-Restriction-Data	Grouped	
3157	Restricted-PLMN-List	Grouped	
3158	Allowed-PLMN-List	Grouped	
3159	Requested-Validity-Time	Time	
3160	Granted-Validity-Time	Time	
3161	NIDD-Authorization-Update	Grouped	
3101			

0400	1. 0.0		1
3162	Loss-Of-Connectivity-Reason	Unsigned32	
3163	Group-Reporting-Guard-Timer	Unsigned32	
3164	CIA-Flags	Unsigned32	
3165	Group-Monitoring-Event-Report	Grouped	
3166	Group-Monitoring-Event-Report-Item	Grouped	
3167	RIR-Flags	Unsigned32	
3168	Type-Of-External-Identifier	Unsigned32	
3169	APN-Validity-Time	Grouped	
3170	Suggested-Network-Configuration	Grouped	
3171	Monitoring-Event-Report-Status	Grouped	
3172	PLMN-ID-Requested	Enumerated	
3173	AdditionalIdentifiers	Grouped	
3174	NIR-Flags	Unsigned32	
3175	Reporting-Time-Stamp	Time	
3176	Group-User-Identifier	Grouped	
3177	NIA-Flags	Unsigned32	
	ne AVP codes from 3176 to 3199 are reserved for TS 29.336.		
3200	SM-Delivery-Outcome-T4	Enumerated	
3201	Absent-Subscriber-Diagnostic-T4	Enumerated	29.337
3202	Trigger-Action	Unsigned32	[29]
3203	MTC-Error-Diagnostic	Unsigned32	
	ne AVP codes from 3204 to 3299 are reserved for TS 29.337.		
3300	SC-Address	OctetString	
3301	SM-RP-UI	OctetString	
3302	TFR-Flags	Unsigned32	
3303	SM-Delivery- Failure-Cause	Grouped	
3304	SM-Enumerated-Delivery-Failure-Cause	Enumerated	
3305	SM-Diagnostic-Info	OctetString	
3306	SM-Delivery-Timer	Unsigned32	
3307	SM-Delivery-Start-Time	Time	
3308	SM-RP-MTÍ	Enumerated	
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	29.338
3317	MME-SM-Delivery-Outcome	Grouped	[30]
3318	MSC-SM-Delivery-Outcome	Grouped	[00]
3319	SGSN-SM-Delivery-Outcome	Grouped	
3320	IP-SM-GW-SM-Delivery-Outcome	Grouped	
3321	SM-Delivery-Cause	Enumerated	
3322	Absent-User-Diagnostic-SM RDR-Flags	Unsigned32	
3323		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	
3333	SMS-GMSC-Alert-Event	Unsigned32	
	ne AVP codes from 3334 to 3399 are reserved for TS 29.338.	T	
3400	reserved	-	
3401	Reason-Header	UTF8String	
3402	Instance-Id	UTF8String	
	Route-Header-Received	UTF8String	32.299
3403			
3404	Route-Header-Transmitted	UTF8String	[5]
	Route-Header-Transmitted SM-Device-Trigger-Information	UTF8String Grouped	[5]
3404	Route-Header-Transmitted	UTF8String	[5]

			1
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	Unsigned32	
3417	MSC-Address	OctetString	
3418	Network-Call-Reference-Number	OctetString	
3419	Start-of-Charging	Time	
3420	VLR-Number	OctetString	
3421	CN-Operator-Selection-Entity	Enumerated	1
3422	ISUP-Cause-Diagnostics	OctetString	-
3423	ISUP-Cause-Location	Unsigned32	-
3424			4
	ISUP-Cause-Value	Unsigned32	-
3425	EPDG-Address	Address	4
3426	Announcing-UE-HPLMN-Identifier	UTF8String	4
3427	Announcing-UE-VPLMN-Identifier	UTF8String	
3428	Coverage-Status	Enumerated	1
3429	Layer-2-Group-ID	OctetString	_
3430	Monitored-PLMN-Identifier	UTF8String	
3431	Monitoring-UE-HPLMN-Identifier	UTF8String	
3432	Monitoring-UE-Identifier	UTF8String	
3433	Monitoring-UE-VPLMN-Identifier	UTF8String	
3434	ProSe-PC3-Control-Protocol-Cause	Integer32	
3435	ProSe-PC3-EPC-Control-Protocol-Cause	Integer32	1
3436	Requested-PLMN-Identifier	UTF8String	
3437	Requestor-PLMN-Identifier	UTF8String	
3438	Role-Of-ProSe-Function	Enumerated	1
3439	Usage-Information-Report-Sequence-Number	Integer32	-
3440	ProSe-3rd-Party-Application-ID	UTF8String	-
3441	ProSe-Direct-Communication-Transmission-Data-Container	Grouped	+
3442		Enumerated	+
	ProSe-Direct-Discovery-Model		_
3443	ProSe-Event-Type	Enumerated	-
3444	ProSe-Function-IP-Address	Address	4
3445	ProSe-Functionality	Enumerated	4
3446	ProSe-Group-IP-Multicast-Addresses	Address	4
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	1
3455	Proximity-Alert-Timestamp	Time	1
3456	Proximity-Cancellation-Timestamp	Time	
3457	ProSe-Function-PLMN-Identifier	UTF8String	1
3458	Application-Specific-Data	OctetString	1
3459	Coverage-Info	Grouped	1
			-
3460	Location-Info ProSe Pirect Communication Recention Pate Container	Grouped	-
3461	ProSe-Direct-Communication-Reception-Data-Container	Grouped	4
3462	Radio-Frequency	OctetString	4
3463	Radio-Parameter-Set-Info	Grouped	_
3464	Radio-Parameter-Set-Values	OctetString	4
3465	Radio-Resources-Indicator	Integer32	1
3466	Time-First-Reception	Time	
3467	Time-First-Transmission	Time	
3468	Transmitter-Info	Grouped	
Note: Th	e AVP codes from 3469 to 3499 are reserved for TS 32.299.		
3500	BMSC-Address	Address	00.400
3501	BMSC-Port	Unsigned32	29.468
3502	MBMS-Bearer-Event	Unsigned32	[31]
		3	1

MBMS-Bearer-Event-Notification	T	I	Τ	1
Section MBMS-Bearer-Response Grouped				
Section				
Section Radio-Frequency				
TMGI-Allocation-Request Grouped				
STORY			Unsigned32	
1511 TMGI-Allocation-Reguest Unsigned32 S12 TMGI-Deallocation-Reguest Grouped	3509		Grouped	
1511 TMGI-Allocation-Reguest Unsigned32 S12 TMGI-Deallocation-Reguest Grouped	3510	TMGI-Allocation-Response	Grouped	
1512 TMGI-Deallocation-Reguest Grouped			Unsigned32	
3514 TMGI-Deallocation-Response Grouped				
1514 TMGI-Deallocation-Result				
19516 TMGI-Expiry				
Since TMGI-Number				
1517 MB2U-Security		TMGI-Number		
				-
Social Marghs Address Address Address Address				=
				-
19521 MBMS-eNB-IPv6-Multicast-Address Address Ad				_
S522 MBMS-GW-SSM-IP-Address Address				_
Segan				_
15224 Common-Tunnel-Endpoint-Identifier				
S252 FEC-Request OctetString S252 ROHC-Request Grouped S27 ROHC-Full-Header-Periodicity Float32 S28 ROHC-Profile Unsigned32 S28 ROHC-Profile Unsigned32 S29 Userplane-Protocol-Result Unsigned32 S29 Userplane-Protocol-Result Unsigned32 S2531 FEC-Result UTF8String S2531 FEC-Result Unsigned32 S2531 FEC-Result Unsigned32 S2531 FEC-Result Unsigned32 S2531 FEC-Result Unsigned32 S2531 FEC-Result S2531 FEC-Result S2531 FEC-Result Unsigned32 S2531 FEC-Result FEC-Result S2531 FEC-Result FEC-Result S2531 FEC-Result FEC-Result FEC-Res				
S256 ROHC-Request Grouped				
SEZE ROHC-Fufile Unsigned32 SEZE ROHC-Profile Unsigned32 SEZE ROHC-Profile Unsigned32 SEZE Userplane-Protocol-Result Grouped Unsigned32 SEZE Userplane-Protocol-Result Unsigned32 SEZE Unsigned32 SEZE Unsigned32 SEZE SEZE SEZE Unsigned32 SEZE SEZ				
15228 ROHC-Profile				
S530 ROHC-Result				
Note: The AVP codes from 3532 to 3599 are reserved for TS 29.468.				
Note: The AVP codes from 3532 to 3599 are reserved for TS 29.468.		ROHC-Result	Unsigned32	
3600 Origin-App-Layer-User-Id	3531	FEC-Result	Unsigned32	
Second Target-App-Layer-User-Id	Note: The	AVP codes from 3532 to 3599 are reserved for TS 29.468.	· -	
Second Target-App-Layer-User-Id	3600	Origin-App-Layer-User-Id	UTF8String	
3603 ProSe-Request-Type	3601	Target-App-Layer-User-Id	UTF8String	
3603 ProSe-Request-Type				
3604 PDUID OctetString 3605 Application-Data UTF8String 29.343 3606 Allowed-Suffixes-Number Unsigned32 3607 Monitor-Target Grouped 3608 ProSe-Code-Suffix-Mask Grouped 3609 Suffix-Code OctetString 3610 Suffix-Mask OctetString 3611 Banned-User-Target Grouped 3612 Metadata-Indicator Unsigned32 Metadata-Indicator Unsigned32 Metadata-Indicator Unsigned32 3701 ProSe-Subscription-Data Grouped 3702 ProSe-Permission Unsigned32 3703 ProSe-Permission Unsigned32 3703 ProSe-Allowed-PLMN Grouped 3704 ProSe-Direct-Allowed Unsigned32 3705 UPR-Flags Unsigned32 3706 PNR-Flags Unsigned32 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 3801 App-Layer-User-Id UTF8String 3802 Assistance-Info-Valldity-Timer Unsigned32 3804 Discovery-Type Unsigned32 3805 Filter-Id OctetString 29.345 3806 MAC-Address UTF8String 3807 Match-Report Grouped 3808 Operating-Channel Unsigned32 3809 P2P-Features Unsigned32 3801 ProSe-App-Code UTF8String 3801 ProSe-App-Code UTF8String Unsigned32 3801 ProSe-App-Code UTF8String UTF8String UTF8String 3801 ProSe-App-Code UTF8String		ProSe-Request-Type		
3605 Application-Data UTF8String 3606 Allowed-Suffixes-Number Unsigned32 3607 Monitor-Target Grouped 3608 ProSe-Code-Suffix-Mask Grouped 3609 Suffix-Code OctetString 3611 Banned-User-Target Grouped 3612 Metadata-Indicator Unsigned32 3701 ProSe-Subscription-Data Grouped 3702 ProSe-Permission Unsigned32 3703 ProSe-Permission Unsigned32 3703 ProSe-Allowed-PLMN Grouped 3704 ProSe-Direct-Allowed Unsigned32 3705 PNR-Flags Unsigned32 3706 PNR-Flags Unsigned32 3707 ProSe-Direct-Allowed Unsigned32 3708 Authorized-Discovery-Range Unsigned32 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 3800 Reserved 3801 App-Layer-User-Id UTF8String 3802 Assistance-info Grouped 3803 Assistance-info Grouped 3803 Assistance-info-Validity-Timer Unsigned32 3804 Discovery-Type Unsigned32 3806 MAC-Address UTF8String 3807 Match-Report Grouped 3808 Operating-Channel Unsigned32 3809 P2P-Features Unsigned32 3810 ProSe-App-Code UTF8String 3820 Operating-Channel Unsigned32 3810 ProSe-App-Code UTF8String 3820 DreSe-App-Code UTF8String UTF8String UTF8String 3820 DreSe-App-Code UTF8String				
3606 Allowed-Suffixes-Number Unsigned32 3607 Monitor-Target Grouped Grouped 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. 3701 ProSe-Subscription-Data Grouped 3702 ProSe-Permission Unsigned32 3703 ProSe-Allowed-PLMN Grouped 3704 ProSe-Direct-Allowed Unsigned32 29.344 3705 UPR-Flags Unsigned32 Unsigned32 3706 PNR-Flags Unsigned32 Unsigned32 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344. 3800 Reserved 3801 App-Layer-User-Id UTF8String 3803 Assistance-Info-Validity-Timer Unsigned32 3804 Discovery-Type Unsigned32 3806 MAC-Address UTF8String 3807 Match-Report Grouped 3808 Operating-Channel Unsigned32 3808 Operating-Channel Unsigned32 3809 PSP-Features Unsigned32 3810 ProSe-App-Code UTF8String Unsigned32 Unsigned3				
3607 Monitor-Target Grouped 3608 ProSe-Code-Suffix-Mask Grouped Grouped Grouped Suffix-Code OctetString 3610 Suffix-Mask OctetString 3611 Banned-User-Target Grouped Grouped				
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. Grouped 3701 ProSe-Subscription-Data Grouped 3702 ProSe-Permission Unsigned32 3703 ProSe-Allowed-PLMN Grouped 3704 ProSe-Direct-Allowed Unsigned32 3705 UPR-Flags Unsigned32 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344. 3800 Reserved 3801 App-Layer-User-Id UTF8String 3802 Assistance-info Grouped 3803 Assistance-info-Validity-Timer Unsigned32 3806 MAC-Address UTF8String 3807 Match-Report Grouped </td <td></td> <td></td> <td></td> <td>- [32]</td>				- [32]
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. Grouped 3701 ProSe-Subscription-Data Grouped 3702 ProSe-Permission Unsigned32 3703 ProSe-Permission Grouped 3704 ProSe-Allowed PLMN Grouped 3704 ProSe-Jinetc-Allowed Unsigned32 29.344 3705 UPR-Flags Unsigned32 29.344 3706 PNR-Flags Unsigned32 [33] 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344. 3800 Reserved 3801 App-Layer-User-Id UTF8String 3802 Assistance-info Grouped 3803 Assistance-info Grouped 3804 Disco				
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Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343. Grouped 3701 ProSe-Subscription-Data Grouped 3702 ProSe-Permission Unsigned32 3703 ProSe-Allowed-PLMN Grouped 3704 ProSe-Direct-Allowed Unsigned32 29.344 3705 UPR-Flags Unsigned32 [33] 3706 PNR-Flags Unsigned32 [33] 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344. UTF8String 3801 App-Layer-User-Id UTF8String 3802 Assistance-info Grouped 3803 Assistance-info Grouped 3804 Discovery-Type Unsigned32 3805 Filter-Id OctetString 29.345 3806 MAC-Address UTF8String [34] 3807 Match-Report Grouped Grouped 3808 Operating-Channel Unsigned32				=
3701 ProSe-Subscription-Data Grouped 3702 ProSe-Permission Unsigned32 3703 ProSe-Allowed-PLMN Grouped 3704 ProSe-Direct-Allowed Unsigned32 29.344 3705 UPR-Flags Unsigned32 [33] 3706 PNR-Flags Unsigned32 [33] 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344. UTF8String 3801 App-Layer-User-Id UTF8String 3802 Assistance-info Grouped 3803 Assistance-info-Validity-Timer Unsigned32 3804 Discovery-Type Unsigned32 3805 Filter-Id OctetString 29.345 3806 MAC-Address UTF8String [34] 3807 Match-Report Grouped Unsigned32 3809 P2P-Features Unsigned32 3810 ProSe-App-Code UTF8String			Offsigned32	
3702 ProSe-Permission Unsigned32 3703 ProSe-Allowed-PLMN Grouped 3704 ProSe-Direct-Allowed Unsigned32 29.344 3705 UPR-Flags Unsigned32 [33] 3706 PNR-Flags Unsigned32 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344. UTF8String 3800 Reserved UTF8String 3801 App-Layer-User-Id UTF8String 3802 Assistance-info Grouped 3803 Assistance-Info-Validity-Timer Unsigned32 3804 Discovery-Type Unsigned32 3805 Filter-Id OctetString 29.345 3806 MAC-Address UTF8String [34] 3807 Match-Report Grouped 3808 Operating-Channel Unsigned32 3809 P2P-Features Unsigned32 3810 ProSe-App-Code UT			Grouped	
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3704 ProSe-Direct-Allowed Unsigned32 29.344 3705 UPR-Flags Unsigned32 [33] 3706 PNR-Flags Unsigned32 [33] 3707 ProSe-Initial-Location-Information Grouped Grouped 3708 Authorized-Discovery-Range Unsigned32 Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344. UTF8String 3801 App-Layer-User-Id UTF8String 3802 Assistance-info Grouped 3803 Assistance-Info-Validity-Timer Unsigned32 3804 Discovery-Type Unsigned32 3805 Filter-Id OctetString 29.345 3806 MAC-Address UTF8String [34] 3807 Match-Report Grouped 3808 Operating-Channel Unsigned32 3809 P2P-Features Unsigned32 3810 ProSe-App-Code UTF8String				_
3705 UPR-Flags Unsigned32 [33] 3706 PNR-Flags Unsigned32 [33] 3707 ProSe-Initial-Location-Information Grouped [37] 3708 Authorized-Discovery-Range Unsigned32 Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344. [3800 Reserved 3801 App-Layer-User-Id UTF8String Grouped 3802 Assistance-info Grouped Grouped 3803 Assistance-Info-Validity-Timer Unsigned32 Unsigned32 3804 Discovery-Type Unsigned32 29.345 3805 Filter-Id OctetString 29.345 3806 MAC-Address UTF8String [34] 3807 Match-Report Grouped 3808 Operating-Channel Unsigned32 3809 P2P-Features Unsigned32 3810 ProSe-App-Code UTF8String				
3706 PNR-Flags Unsigned32 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344. 3800 3801 App-Layer-User-Id UTF8String 3802 Assistance-info Grouped 3803 Assistance-Info-Validity-Timer Unsigned32 3804 Discovery-Type Unsigned32 3805 Filter-Id OctetString 29.345 3806 MAC-Address UTF8String [34] 3807 Match-Report Grouped 3808 Operating-Channel Unsigned32 3809 P2P-Features Unsigned32 3810 ProSe-App-Code UTF8String				
3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344. 3800 Reserved 3801 App-Layer-User-Id UTF8String Grouped 3802 Assistance-info Grouped Unsigned32 3804 Discovery-Type Unsigned32 Unsigned32 3805 Filter-Id OctetString 29.345 3806 MAC-Address UTF8String [34] 3807 Match-Report Grouped 3808 Operating-Channel Unsigned32 3809 P2P-Features Unsigned32 3810 ProSe-App-Code UTF8String				[33]
3708 Authorized-Discovery-Range Unsigned32 Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344. 3800 Reserved 3801 App-Layer-User-Id UTF8String 3802 Assistance-info Grouped 3803 Assistance-Info-Validity-Timer Unsigned32 3804 Discovery-Type Unsigned32 3805 Filter-Id OctetString 29.345 3806 MAC-Address UTF8String [34] 3807 Match-Report Grouped 3808 Operating-Channel Unsigned32 3809 P2P-Features Unsigned32 3810 ProSe-App-Code UTF8String				_
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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. SCS-Realm 4000 Aggregated-Congestion-Info Grouped 4001 Aggregated-RUCI-Report Grouped 4002 Congestion-Level-Definition Grouped 4003 Congestion-Level-Range Unsigned32 4004 Congestion-Level-Set-Id Unsigned32 4005 Congestion-Level-Value Unsigned32 4006 Congestion-Level-Value Unsigned32 4007 Conditional-Restriction Unsigned32 4008 eNodeB-Id OctetString 4010 RCAF-Id DiameterIdentity 4011 Reporting-Restriction Unsigned32 4012 RUCI-Action Unsigned32 4013 Extended-eNodeB-ID OctetString				
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3941 SCS-Address 3942 SCS-Realm Note: The AVP codes from 3943 to 3999 are reserved for TS 32.299. 4000 Aggregated-Congestion-Info 4001 Aggregated-RUCI-Report 4002 Congestion-Level-Definition 4003 Congestion-Level-Range 4004 Congestion-Level-Set-Id 4005 Congestion-Level-Value 4006 Congestion-Level-Value 4007 Conditional-Restriction 4008 eNodeB-Id 4009 IMSI-List 4009 IMSI-List 4010 RCAF-Id 4010 RCAF-Id 4011 Reporting-Restriction 4011 Reporting-Restriction 4012 RUCI-Action 4013 Extended-eNodeB-ID 4015 CoctetString 4016 CoctetString 4017 Conditional-Restriction 4018 CoctetString 4019 IMSI-List 4010 RCAF-Id 4010 RCAF-Id 4011 Reporting-Restriction 4011 Reporting-Restriction 4012 RUCI-Action 4013 Extended-eNodeB-ID				
SCS-Realm DiameterIdentity				
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4012 RUCI-Action Unsigned32 4013 Extended-eNodeB-ID OctetString				\dashv
4013 Extended-eNodeB-ID OctetString				
				
Note: The AVD codes from 4044 to 4000 are recented for TO 00 047			OctetString	
Note: The AVP codes from 4014 to 4099 are reserved for TS 29.217.			Cur!	20.450
				29.153
			Unsigned32	[37]
Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.			Onto totalin in	-
4201 Network-Area-Info-List OctetString				_
4202 Reference-Id OctetString				\dashv
4203 Transfer-Request-Type Unsigned32				\dashv
4204 Time-Window Grouped				— <u> </u>
				29.154
				[38]
4207 Transfer-Policy Grouped				
4208 Transfer-Policy-Id Unsigned32				
4209 Number-Of-UEs Unsigned32				
4210 Access-Network-Reports Grouped	4210	Access-Network-Reports	Grouped	

4211	Event-Configuration	Grouped	
4212	Event-Configuration Event-Configuration-State	Unsigned32	
4213	Event-Configuration-Status	Grouped	
4214	Event-Reporting-Results	Unsigned32	
4215	Event-Reports Event-Reports	Grouped	
4216	Extended-SCEF-Reference-ID	Unsigned64	
	e AVP codes from 4217 to 4299 are reserved for TS 29.154.	Onsignedo-	
4300	Communication-Failure-Information	Grouped	
4301	Cause-Type	Unsigned32	
4302	S1AP-Cause	Unsigned32	
4303	RANAP-Cause	Unsigned32	
4304	GMM-Cause	Unsigned32	
4304	SM-Cause	Unsigned32	
		9	
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	Grouped	
4311	Uplink-Rate-Limit	Unsigned32	29.128
4312	Downlink-Rate-Limit	Unsigned32	[36]
4313	Extended-PCO	OctetString	[[00]
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	Idle-Status-Indication	Grouped	
4323	Idle-Status-Timestamp	Time	
4324	Active-Time	Unsigned32	
Note: Th	e AVP codes from 4325 to 4399 are reserved for TS 29.128.		
4400	Charging-Per-IP-CAN-Session-Indicator	Enumerated	
4401	Access-Network-Info-Change	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	32.299
4407	Unused-Quota-Timer	Unsigned32	[5]
4408	Announcing-PLMN-ID	UTF8String	[0]
4409	ProSe-UE-to-Network-Relay-UE-ID	OctetString	
4410	ProSe-Target-Layer-2-ID	OctetString	
4411	Relay-IP-address	Address	
1 1 1	Target-IP-Address	Address	
	LIGIGOT II / MULOO	Audi 633	
4412			
4412 4413	FE-Identifier-List	UTF8String	
4412 4413 Note: Th	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299	UTF8String	
4412 4413 Note: Th 4500	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID	UTF8String UTF8String	
4412 4413 Note: Th 4500 4501	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID Data-Identification	UTF8String UTF8String Grouped	
4412 4413 Note: Th 4500 4501 4502	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID Data-Identification Data-Identification-Prefix	UTF8String UTF8String Grouped Unsigned32	
4412 4413 Note: Th 4500 4501 4502 4503	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID Data-Identification Data-Identification-Prefix Data-Identification-Flags	UTF8String UTF8String Grouped Unsigned32 Unsigned64	
4412 4413 Note: Th 4500 4501 4502 4503 4504	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID Data-Identification Data-Identification-Prefix Data-Identification-Flags DPR-Flags	UTF8String UTF8String Grouped Unsigned32 Unsigned64 Unsigned32	
4412 4413 Note: Th 4500 4501 4502 4503 4504 4505	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID Data-Identification Data-Identification-Prefix Data-Identification-Flags DPR-Flags DPA-Flags	UTF8String UTF8String Grouped Unsigned32 Unsigned64 Unsigned32 Unsigned32 Unsigned32	
4412 4413 Note: Th 4500 4501 4502 4503 4504 4505 4506	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID Data-Identification Data-Identification-Prefix Data-Identification-Flags DPR-Flags DPA-Flags DUR-Flags	UTF8String UTF8String Grouped Unsigned32 Unsigned64 Unsigned32 Unsigned32 Unsigned32 Unsigned32	29.283
4412 4413 Note: Th 4500 4501 4502 4503 4504 4505 4506 4507	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID Data-Identification Data-Identification-Prefix Data-Identification-Flags DPR-Flags DPA-Flags DUR-Flags DUA-Flags	UTF8String UTF8String Grouped Unsigned32 Unsigned64 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	
4412 4413 Note: Th 4500 4501 4502 4503 4504 4505 4506 4507 4508	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID Data-Identification Data-Identification-Prefix Data-Identification-Flags DPR-Flags DPA-Flags DUR-Flags DUR-Flags DUA-Flags NDR-Flags	UTF8String UTF8String Grouped Unsigned32 Unsigned64 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	29.283
4412 4413 Note: Th 4500 4501 4502 4503 4504 4505 4506 4507 4508	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID Data-Identification Data-Identification-Prefix Data-Identification-Flags DPR-Flags DPA-Flags DUR-Flags DUA-Flags NDR-Flags NDR-Flags	UTF8String UTF8String Grouped Unsigned32 Unsigned64 Unsigned32	
4412 4413 Note: Th 4500 4501 4502 4503 4504 4505 4506 4507 4508 4509	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID Data-Identification Data-Identification-Prefix Data-Identification-Flags DPR-Flags DPR-Flags DUR-Flags DUR-Flags NDR-Flags NDR-Flags	UTF8String UTF8String Grouped Unsigned32 Unsigned64 Unsigned32	
4412 4413 Note: Th 4500 4501 4502 4503 4504 4505 4506 4507 4508 4509 4510	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID Data-Identification Data-Identification-Prefix Data-Identification-Flags DPR-Flags DPA-Flags DUA-Flags DUA-Flags NDR-Flags	UTF8String UTF8String Grouped Unsigned32 Grouped	
4412 4413 Note: Th 4500 4501 4502 4503 4504 4505 4506 4507 4508 4509 4510 4511	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID Data-Identification Data-Identification-Prefix Data-Identification-Flags DPR-Flags DPR-Flags DUA-Flags DUA-Flags NDR-Flags NDR-Flags NDR-Flags NDR-Flags Sequence-Number	UTF8String UTF8String Grouped Unsigned32	29.283
4412 4413 Note: Th 4500 4501 4502 4503 4504 4505 4506 4507 4508 4509 4510	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID Data-Identification Data-Identification-Prefix Data-Identification-Flags DPR-Flags DPR-Flags DUA-Flags DUA-Flags NDR-Flags NDR-Flags NDR-Flags NDR-Flags Sequence-Number MCVideo-ID	UTF8String Grouped Unsigned32 Unsigned32	
4412 4413 Note: Th 4500 4501 4502 4503 4504 4505 4506 4507 4508 4509 4510 4511	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID Data-Identification Data-Identification-Prefix Data-Identification-Flags DPR-Flags DPR-Flags DUA-Flags DUA-Flags NDR-Flags NDR-Flags NDR-Flags NDR-Flags Sequence-Number	UTF8String UTF8String Grouped Unsigned32	
4412 4413 Note: Th 4500 4501 4502 4503 4504 4505 4506 4507 4508 4509 4510 4511 4512 4513	FE-Identifier-List e AVP codes from 4414 to 4499 are reserved for TS 32.299 MCPTT-ID Data-Identification Data-Identification-Prefix Data-Identification-Flags DPR-Flags DPR-Flags DUA-Flags DUA-Flags NDR-Flags NDR-Flags NDR-Flags NDR-Flags Sequence-Number MCVideo-ID	UTF8String Grouped Unsigned32 Unsigned32	

4601	V2X-Update-Flags	Unsigned32	29.388
4602	V2X-Notify-Flags	Unsigned32	[40]
Note: The	e AVP codes from 4603 to 4799 are reserved for TS 29.388.		
4700	V2X-Authorization-Data	Grouped	29.389
4701	V2X-Permission-in-VPLMN	Unsigned32	29.369 [41]
4702	V2X-Application-Server	Grouped	[41]
Note: The	e AVP codes from 4703 to 4799 are reserved for TS and TS 29.38	9.	
			29.561
			[42]
Note: The	e AVP codes from 4800 to 4999 are reserved for TS and TS 29.56	1.	

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 Experim	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.	
2421	DIAMETER_QOS_FLOW_DELETION_INDICATION	29.561 [42]
Note: The Experim	ental Result Codes from 2422 to 2440 are reserved for the TS 29.561.	_

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS	
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.	
4121	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]
Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061.	
4141	DIAMETER_PCC_BEARER_EVENT	
4142	DIAMETER_BEARER_EVENT	29.212 [19]
4143	DIAMETER_AN_GW_FAILED	29.212 [19]
4144	DIAMETER_PENDING_TRANSACTION	
Note: The Experime	ntal Result Codes from 4145 to 4160 are reserved for the TS 29.212	
		32.299 [5]
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.	
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	29.272 [21]
4182	DIAMETER_ERROR_CAMEL_SUBSCRIPTION_PRESENT	29.272 [21]
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.	
	DIAMETER_ERROR_ABSENT_USER	29.173 [25]
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.	
4221	DIAMETER_ERROR_UNREACHABLE_USER	
4222	DIAMETER_ERROR_SUSPENDED_USER	
4223	DIAMETER_ERROR_DETACHED_USER	29.172 [24]
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]
4225	DIAMETER_ERROR_POSITIONING_FAILED	
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT	
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.	
4241	DIAMETER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	29.219 [26]
Note: The Experime	ntal Result Codes from 4242 to 4260 are reserved for the TS 29.219.	
	REQUESTED_SERVICE_TEMPORARILY_NOT_AUTHORIZED	29.214 [18]
Note: The Experime	ntal Result Codes from 4262 to 4280 are reserved for the TS 29.214.	

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	
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_UNSUP PORTED	
Note: The Expe	rimental Result Codes from 5013 to 5020 are reserved for the T	S 29.229. 32.299 [5]
Note: The Eyne	i erimental Result Codes from 5021 to 5040 are reserved for the T	
5041	DIAMETER ERROR USER NO WLAN SUBSCRIPTION	0 02.200.
5042	DIAMETER ERROR W-APN UNUSED BY USER	
5043	DIAMETER ERROR NO ACCESS INDEPENDENT SUBS	
	CRIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	0.00.004
•	erimental Result Codes from 5046 to 5060 are reserved for the TS	5 29.234. T
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	29.209 [8],
5064	DUPLICATED_AF_SESSION	29.211 [17] ,
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.214 [18]
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
	TEMPORARY_NETWORK_FAILURE perimental Result Codes from 5069 to 5080 are reserved for TS 29).209, TS 29.211
	TS 29.214.	I
5100 5101	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ DIAMETER ERROR USER DATA CANNOT BE MODIFIE	
5103	D	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIE D	29.329 [4]
5105	DIAMETER_ERROR_TRANSPARENT_DATA 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	erimental Result Codes from 5109 to 5119 are reserved for the T	S 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVI	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	1
	erimental Result Codes from 5124 to 5139 are reserved for the T	S 29 061
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	20.001.
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE D	20 212 [10]
5145	DIAMETER_QOS_RULE_EVENT	29.212 [19]
5146	reserved	1
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	j
5148	DIAMETER ADC RULE_EVENT	İ
5149	DIAMETER_ERROR_NBIFOM_NOT_AUTHORIZED	1
	erimental Result Codes from 5150 to 5159 are reserved for the T	S 29.212.
Lioto. The Expe	minorital research to the reserved for t	· · · · · · · · ·

5401	DIAMETER_ERROR_IMPI_UNKNOWN	
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALI	29.109 [1
	D	
Note: The Expe	erimental Result Codes from 5404 to 5419 are reserved for the TS	S 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	
Note: The Expe	erimental Result Codes from 5424 to 5449 are reserved for the TS	S 29.272.
5450	DIAMETER ERROR USER NO NON 3GPP_SUBSCRIPTI	
	ON	
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	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	
	erimental Result Codes from 5455 to 5469 are reserved for the TS	S 29.273.
5470	DIAMETER_ERROR_SUBSESSION	
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME	29.215 [22]
	NT	_00 []
Note: The Expe	erimental Result Codes from 5472 to 5489 are reserved for the TS	S 29.215.
5490	DIAMETER ERROR UNAUTHORIZED REQUESTING NE	
	TWORK	29.173 [25]
Note: The Expe	erimental Result Codes from 5491 to 5509 are reserved for the TS	S 29.173.
5510	DIAMETER ERROR UNAUTHORIZED REQUESTING EN	
	TITY	
5511	DIAMETER ERROR UNAUTHORIZED SERVICE	
5512	DIAMETER ERROR REQUESTED RANGE IS NOT	
3312	ALLOWED	
5513	DIAMETER ERROR CONFIGURATION EVENT STORAG	29.336 [28]
0010	E_NOT_SUCCESSFUL	
5514	DIAMETER_ERROR_CONFIGURATION_EVENT_NON_EXI	
3314	STANT	
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	
	erimental Result Codes from 5516 to 5529 are reserved for the TS	S 29 336
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	J 20.000.
5531	DIAMETER_ERROR_SC_CONGESTION	
5532	DIAMETER_ERROR_SM_PROTOCOL	
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	29.337 [29]
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	29.557 [29]
	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDIN	
5535	G	
Note: The Eve	erimental Result Codes from 5536 to 5549 are reserved for the TS	2 20 227
•	DIAMETER ERROR ABSENT USER	J 23.331.
5550		
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5553	DIAMETER_ERROR_ILLEGAL_USER	200 000 000
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	
	erimental Result Codes from 5559 to 5569 are reserved for the TS	
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
	Experimental Result Codes from 5571 to 5589 are reserved for the	ne 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	
	ED	29.343 [32]
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	
5596	DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN	
5597	DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_S	
	ET	
5598	DIAMETER_ERROR_MISSING_APPLICATION_DATA	

5599	DIAMETER_ERROR_AUTHORIZATION_REJECT	
5600	DIAMETER_ERROR_DISCOVERY_NOT_PERMITTED	
5601	DIAMETER_ERROR_TARGET_RPAUID_UNKNOWN	
5602	DIAMETER_ERROR_INVALID_APPLICATION_DATA	
Note: The Expe	erimental Result Codes from 5603 to 5609 are reserved for the T	S 29.343.
5610	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION	
5611	DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]
5612	DIAMETER_ERROR_UE_LOCATION_UNKNOWN	
Note: The Expe	erimental Result Codes from 5613 to 5629 are reserved for the T	S 29.344.
5630	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT	
	ER ER	
5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_	
	PLMN	
5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE	
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	
5634	DIAMETER_ERROR_PROXIMITY_REJECTED	
5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	00 045 [04]
5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS	29.345 [34]
	_PLMN	
5637	DIAMETER_ERROR_PROXIMITY_CANCELLED	
5638	DIAMETER_ERROR_INVALID_TARGET_PDUID	
5639	DIAMETER_ERROR_INVALID_TARGET_RPAUID	
5640	DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO	
	DE	
5641	DIAMETER_ERROR_INVALID_DISCOVERY_TYPE	
Note: The Expe	erimental Result Codes from 5642 to 5649 are reserved for the T	S 29.345.
5650	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SER	
	VED	
5651	DIAMETER_ERROR_INVALID_EPS_BEARER	
5652	DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAIL	29.128 [36]
	ABLE	
5653	DIAMETER_ERROR_USER_TEMPORARILY_UNREACHAB	
	LE	
Note: The Expe	erimental Result Codes from 5654 to 5669 are reserved for the T	S 29.128.
5670	DIAMETER_ERROR_UNKNKOWN_DATA	29.283 [39]
5671	DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	
Note: The Expe	erimental Result Codes from 5672 to 5689 are reserved for the T	S 29.128.
5690	DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION	29.388 [40]
5691	DIAMETER_ERROR_V2X_NOT_ALLOWED	
Note: The Expe	erimental Result Codes from 5692 to 5709 are reserved for the TS	S 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

TSG #	TSG Doc.	CR	Re v	Subject/Comment	New
CN#24	NP- 040292			Version 2.0.0 presented for information and approval	6.0.0
CN#25	NP-	001		Correction of Charging application reference	6.1.0
CN#25	NP-	002		Correction of the Application-Id code	6.1.0
CN#25	NP-	003		Removal of User Data Request Type AVP	6.1.0
CN#25	NP-	004	1	Re-numbering of 3GPP specific AVP codes.	6.1.0
CN#26	NP-	006		Inclusion of missing Cx AVPs	6.2.0
CN#26	NP-	007	1	Reservation of command code 310	6.2.0
CN#26	NP-	009	1	Addition of Gmb interface	6.2.0
CN#26	NP-	010	2	Documenting the Reuse of the 3GPP specific application identifier of Ro for	6.2.0
CN#26	NP-	011		Gq interface allocations	6.2.0
CN#26	NP-	012		Addition of Gx interface	6.2.0
CN#27	NP-	040	1	WLAN Diameter AVP and result codes	6.3.0
	050047 NP-	043		Allocations for Gx interface	-
	050039 NP-	045		Allocations for Gmb interface	
	050039 NP-	046	-	Allocations for MMS, MM10 Interface	_
CT#28	050039	005			6.4.0
	050088	0	1		_
CT#20	050196	1			6.5.0
01#29	050440	2	<u>'</u>		0.3.0
	050310	3		·	
	050310	4			
	050310	6			
	050317	5		· ·	7.0.0
CT#30	CP- 050624	005 8		,	7.1.0
	CP- 050612	006 3		Additional Gmb AVP Allocation	
	CP- 050612	006 5		Reservation of AVP codes for 32.299	
	CP- 050625	006 6		Management of Sh subscriptions	
CT#31	CP-	006 9		Adding data type of some of WLAN-related AVPs	7.2.0
	CP-	007		User-Data in the response to Sh-Subs-Notif	
	CP-	007	1	New error indications for the Sh-Subs-Notif procedure	1
CT#32	CP-	007		S-CSCF reselection removal	7.3.0
CT#33	CP-	007	3	New AVP Code	7.4.0
	CP-	008		Errors to be sent in response to Sh-Notif	1
	060417 CP- 060417	008		Definition of specific Diameter codes for DSAI	-
	CN#25 CN#25 CN#25 CN#25 CN#26 CN#26 CN#26 CN#26 CN#26 CN#27 CT#28 CT#29 CT#30 CT#31	040292	O40292	O40292	CNi/22 NP- 040292 V Version 2.0.0 presented for information and approval 040401 CNi/25 NP- 040401 001 040401 Correction of Charging application reference CNi/25 NP- 040401 002 040401 Correction of the Application-Id code CNi/25 NP- 040401 003 040401 Removal of User Data Request Type AVP 040579 CNi/26 NP- 040579 004 040579 Removal of User Data Request Type AVP 040579 CNi/26 NP- 040579 006 040579 Inclusion of missing Cx AVPs 040579 CNi/26 NP- 040579 009 040579 1 040579 CNi/27 NP- 040579 009 040579 1 040579 CNi/27 NP- 040579 040 040579 1 040579 CNi/27 NP- 040579 040 040579 1 040579 Addition of Gx interface CNi/27 NP- 040579 040 040579 1 040579 Addition of Gx interface CNi/27 NP- 040579 040 040579 1 040579 Addition of Gx interface CNi/28 NP- 050047 040 040579 1 040579 Addition of Gx interface CNi/27 NP- 050047 040 040579 1 040579 Addition of Gx interface CNi/28 NP- 050049 045 050049 Allocations for Gx interface

2006-12	CT#34	CP-	008	1	Optimization of handling of Wildcarded PSIs	7.5.0
2000 12	01#54	060566	5	<u>'</u>		1.5.0
		CP- 060562	008 6		Addition of Diameter Error Code for Emergency Purposes	
		CP- 060555	008		Allocation of new AVP codes for Gmb	
		CP-	008		AVP code allocations for Rf and Ro interfaces	
		060555 CP-	9 009		Allocation of Success Result Code Range for Gi Interface	
2007.02	CT#25	060566 CP-	1			7.0.0
2007-03	CT#35	070020	009 3		C3 requested addition of new AVP code values to 3GPP TS 29.230	7.6.0
		CP- 070020	009 3		Allocation of new AVP code for DSAI-Tag AVP	
		CP-	009		Allocation of Experimental-Result-Code AVP for Gi Interface	
2007-06	CT#36	070020 CP-	009		Diameter application ID for the Rel-7 Rx interface	7.7.0
		070318 CP-	6 009		Experimental-Result-Codes for Gmb interface	
		070312	8			
		CP- 070312	010 0		Correction of Diameter AVP code allocation	
2007-09	CT#37	CP-	010		Application ID for Gx protocol	7.8.0
2007-12	CT#38	070527 CP-	010		AVP code reservation for 32.299 in Rel-7	7.9.0
	-	070743	4 010		Allocation of 3GPP specific AVP codes and Experimental Result Codes for	
			5		Gx protocol	
2007-12	CT#38	CP- 070755	010 1	4	AVP assignments to support SIP Digest Authentication	8.0.0
	Ì		010		AVP code reservation for 32.299 in Rel-8	
2008-03	CT#39	CP-	010		Correction of reference to TS 29.140	8.1.0
		080015 CP-	9 011		AVP code reservation for TS 32.299 in Rel-8	
		080019	1			
		CP- 080019	010 7		Wildcarded Public User Identities	
		CP- 080191	011	1	Correction on AVP code allocation reservation for TS 32.299 in Rel-7	
		CP-	011	1	Correction on AVP code allocation reservation for TS 32.299	
2008-06	CT#40	080204 CP-	3 011	1	A new Diameter Permanent Failure Code for Gx	8.2.0
2008-09	CT#41	080267 CP-	7 011		Emergency Public User Identity Removal	8.3.0
		080456	9			
2008-09	CT#41	CP- 080460	012 1	1	Support of "Loose-Route" indication from HSS	
2008-09	CT#41	CP- 080460	012	1	STaMIP Application Id	
2008-09	CT#41	CP-	012		Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment)	
2008-09	CT#41	080463 CP-	3 012		New AVP Code Assignment for Forking Service Restoration	8.3.0
		080463	4		·	
2008-12	CT#42	CP- 080691	012 7	2	Diameter Protocol Codes Assignments for S6a/S6d/S13	8.4.0
2008-12	CT#42	CP- 080691	012 8	1	Diameter code assignments for 3GPP TS 29.273	8.4.0
2009-03	CT#43	CP-	013	1	Update for ReadyForSM	8.5.0
2009-03	CT#43	090044 CP-	013	1	Handling LCS Subscription Data	8.5.0
2009-03	CT#43	090044 CP-	1 013		Update for Restoration	8.5.0
		090026	2			
2009-03	CT#43	CP- 090024	013 3		Applds for Gxx and S9	8.5.0
2009-03	CT#43	CP- 090033	013	2	Appld and command code for Zpn	8.5.0
2009-03	CT#43	CP-	013	1	AVP codes for S9 protocol	8.5.0
2009-03	CT#43	090024 CP-	7 013	1	Diameter AVP Code allocation	8.5.0
		090024	8			
2009-03	CT#43	CP- 090024	014 0	1	Location of Permanent Failure result code range for the S9 application	8.5.0

2009-03	CT#43	CP- 090024	014 1		AVPs for TS 29.273	8.5.0
2009-03	CT#43	CP- 090024	014 2	1	Error code allocation for authentication failure	8.5.0
2009-06	CT#44	CP- 090299	012 9	4	Update of the AVP Codes	8.6.0
		CP- 090299	014		AVP code reservation for TS 32.299	
		CP-	3 014		Diameter Command Codes for S6a/S6d/S13/S13'	
		090299	5 014		Removal of Requesting Node Type from AIR	
		CP-	6 014		S6b Application ID	
2009-09	CT#45	090299 CP-	7 014		Allocation of Experimental-Result-Codes for S9 protocol	8.7.0
	0 1 11 10	090530 CP-	9		AVP code allocation for TS 29.212	-
		090530	2			
		CP- 090531	015 0		Update of the AVP type for the User-Id	
		CP- 090531	015 3		Trace Depth per session	
2009-09	CT#45	CP- 090557	014 8		AVP code range for charging	9.0.0
2009-12	CT#46	CP- 090800	015 4	1	ICS-Flag	9.1.0
		CP- 091032	015 6		From GMLC-Address to GMLC-Number	
		091032	016		Session-Priority AVP	
			0 016	2	Introduction of SLh application related AVPs and Experimental Result codes	
			3 016		Missing AVP error codes	
		CP-	6 016	1	Introduction of SLg application related AVPs and Application Identifier	
2010-03	CT#47	090797 CP-	7 015	1	Wildcarded Public Identity	9.2.0
20.000		100031 CP-	8	1	Correction on AVP code allocation reservation for TS 32.299 in Rel-9	- 0.2.0
		100034 CP-	8 016	1	AVP code allocation for 29.172	
		100046	9	'		
		CP- 100036	017 2		GPL_U support in TS 29.109	
		CP- 100046	017 3		Error codes in 29.172 for SLg	
		CP- 100048	017 4	1	AVPs in 29.272 for TADS support	
		CP- 100040	017		Error codes in 29.272 for Unknown MME	
		CP-	5 017	4	EPS Subcsriber State and Location Information Request	
		100236 CP-	6 018		One time notification AVP allocation	-
		100033 CP-	0 018		Addition of the LCS-QoS-Class attribute value	
		100046 CP-	1 018		Introduction of the LCS-Capabilities-Sets AVP in SLh interface	-
2010-06	CT#48	100175 CP-	2 018	1	AVP Codes for PCC	9.3.0
2010 - 00	01#40	100263	8	1		ə.ə.u
			018 3		EPS state and location retrieval	
		CP- 100287	018 6		SGmb Application ID	
		CP- 100277	019 0	1	New APVs in S6a protocol	
2010-09	CT#49	CP-	019	1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces	9.4.0
		100463 CP-	7 019		AVP Codes Allocation for PCC	1
2010-09	CT#49	100464 CP-	6 019	1	SIPTO Permission Indicator	10.0.0
		100465 CP-	3 019	2	Location data including only serving node address	
		100466	8			

		CP- 100466	019 9	1	AVP for Update-Eff feature	
2010-12	CT#50	CP- 100699	020 5		Enhanced SRVCC Subscriber Data	10.1.0
		CP-	020	1	Allocate codes for AVPs on eMPS	
		100687 CP-	020	1	Allocate codes for AVPs on LIPA	
		100683 CP-	0 020	1	Periodic TAU/RAU timer in HSS subscription	
		100688 CP-	6 020	1	S6a Error Diagnostic	_
		100846	3	'		
011-03	CT#51	CP- 110051	021 2		PDP-Address correction	10.2.0
		CP- 110054	021 5		Essential correction on the value type of the ELP Application AVPs	
		CP- 110087	020	2	Minimization of Drive Tests (MDT)	
		CP-	020	1	Relay Node Indicator AVPs	
011-06	CT#52	110088 CP-	9 021	2	Handling of RTR for Emergency Registration	10.3.0
		110349 CP-	9 023	1	Add AVPs from QSPEC cleanup	
		110347 CP-	1 022	-	MIPv4 security parameters on the STa and S6b interfaces	
		110359	6 021			
		CP- 110380	6		MDT user consent	
		CP- 110370	022 3		AVP Code Allocation for Pre-paging	
		CP- 110375	022 7	1	PUR-Flags AVP	
011-09	CT#53	CP-	023	1	AVP code alignment with 29.212	10.4.0
	(110559 CP-	6 023	1	AVP code alignment with 32.299	
		110555 CP-	9 024	1	AVP code alignment with 29.214	
		110554 CP-	4 024		Experimental Result Code Alignment with 29.061	_
		110552 CP-	9		Failure code and AVP code alignment with 29.212	
		110555	2			
		CP- 110722	025 7	2	Priviledged sender	
2011-09	CT#53	CP- 110584	023 4	1	Add vSRVCC updates to the Diameter AVP code table	11.0.0
		CP- 110579	024 0		AVP code alignment with 32.299	
		CP-	025		AVP code reservation for 29.212	
2011-12	CT#54	110555 CP-	3 025	1	SWx Restoration AVPs	11.1.0
		110812 CP-	8 025		Sy and Sd Application IDs	
		110812 CP-	9 026		New AVP codes for MBMS IP unicast encapsulation	
		110775 CP-	2 026		New AVP codes for MBMS IP multicast encapsulation	
		110775	5		· ·	
		CP- 110786	027 1	1	MME-Realm AVP code allocation	
		CP- 110811	027 7		Equivalent PLMN CSG Subscription Request	
		CP-	028	1	Restoration of Wildcarded-IMPU AVP	
012-03	CT#55	110781 CP-	028	1	Codes Allocation for AVPs on Initial Attach	11.2.0
		120025 CP-	6 028	\vdash	New AVP codes for Absolute Time of MBMS Data Transfer over SGmb	
		120038 CP-	8 029	1	Allocating Diameter AVP codes for TS 29.219 and TS 29.212	
2012-06	CT#56	120038 CP-	1 028	5	Codes Allocation for AVPs on NPLI	11.3.0
LU 12-UD	C1#30	120240	7			11.3.0
		CP- 120238	029 4	1	Adding new Diameter AVPs to Diameter table to support Trusted WLAN Access feature	
		CP- 120225	029 6	1	Trust Relationship Indication	

	1	lop.	000	14		_
		CP- 120251	029 7	1	Corrections to reference titles	
		CP-	029	1	Diameter Code Allocation for TS 29.219	
		120251 CP-	8 030	-	Network Name AVP codes	-
		120247	0		D. II. (IAVD	
		CP- 120219	030 4	-	Duplicated AVP names	
2012-09	CT#57	CP-	028	3	PS additional number allocation	11.4.0
		120481 CP-	9 029	4	SMS in MME/SGSN	
		120473	3			
		CP- 120461	029 9	2	AAA Failure Recovery AVP codes	
		CP-	030	-	Transport Access Type AVP for BBAI	
		120474 CP-	5 030	1	Local Time Zone	
		120480	7	'		
		CP- 120472	030	-	Allocating Application Identifier and command code for Tsp interface	
		CP-	8 030	-	Application Identifier, Command Codes and AVP range for S6m interface	
		120472	9	4	GMLC-Name	
		CP- 120667	031 2	1	GWILO-MAINE	
			031	1	Reference list correction to align with the corrected TS 29.212 title	
012-12	CT#58	CP-	3 031	2	T4 device triggering via IMS	11.5.0
	130	120731	5			
		CP- 120731	031 8	1	Codes and Identifier Allocation for T4 Specification	
		CP-	032	-	AVP Code Allocation for 29.336	
		120731 CP-	4 032		Diameter AVP code value allocation in TS 29,368	_
		120731	9			
		CP-	031	2	Application Identifier, Command Codes and AVP codes for SGd, S6c	
		120732 CP-	032	1	AVP name modification in TS 32.299	+
		120716	4			
		CP- 120742	032 5	-	UE Time Zone AVP	
		CP-	032	1	Use of Flag instead of Enumerated AVPs	
		120741 CP-	8 332	-	Use of Flag instead of Enumerated AVPs	
		120741				
		CP- 120743	330	-	PSI direct routing with restoration procedures	
		CP-	333	-	EPS LocationInformation Support	
013-03	CT#59	120743 CP-	022	1	Diameter error code for TS 29.219	11 6 0
013-03	01#39	130026	033 4	1	Diameter endi code for 13 23.213	11.6.0
		CP-	033	-	MDT parameters	
013-03	CT#59	130026 CP-	6 033	1	New AVPs for Lgd interface	12.0.0
		130156	7			
		CP- 130030	034 1	-	Validity Time of Short Message	
013-06	CT#60	CP-	036	1	Add new DER-S6b-flag AVP	12.1.0
		130288 CP-	2 036	-	Failure Result Codes Allocation for TS 29.219	\dashv
		130298	0			_
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		CP-	035	1	Definition of SS Status for Call Barring	\dashv
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		CP-	034	-	Restoration Priority during SGW and PGW restoration procedures	7
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2013-09	CT#61	CP- 130454	036 4	2	New MBMS flag for eMBMS restoration	12.2.0
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		CP- 130800	037	-	New AVPs for SMS for IMS UE without MSISDN in TS 29.338	1
		CP- 130600	037 6	1	Allocation of Diameter codes for 32.299	1
		CP- 130605	037 8	-	Allocation of Diameter codes for 29.212	1
		CP-	038	-	SGSN CAMEL Subscription Indication	
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		140180 CP-	1 038	-	New AVP for the support of combined MME/SGSN	-
		140035 CP-	4 038	1	Definition of WLAN-related AVPs	4
2014-06	CT#64	140023 CP-	3 038	1	Protocol enhancements to indicate support of device recall and replace by	12.5.0
2014-06	C1#64	140211	5		SMS-SC	12.5.0
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:		CP- 140257	039	1	SS-Status AVP Definition	
		CP-	039	-	Definition of AVPs for Network Location in TWLAN	1
		140252 CP-	039	-	TWAN-BSSID AVP re-naming	1
 		140236 CP-	9	-	New AVPs for Trusted WLAN access	\dashv
i		140247 CP-	7 039	1	Adding Codes for 29.214	_
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2014-09	CT#65	CP- 140515	040 3	1	T-GRUU restoration	12.6.0
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		CP- 140506	040	1	P-CSCF Restoration indication	7
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ļ		CP-	040	-	Identification of the HSS	1
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			043	-	New Diagnostic-Info AVP for MBMS restoration	1
·			041	1	WLCP key for WLCP signalling protection	1
			041	-	Reset-ID	1
			041	1	Code definitions for 32.299	-
			6 042	-	Removal of I-WLAN AVPs	-
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			3	-	MDT PLMN List	_
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History

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