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Modal verbs terminology

In the present document "shall", "shall not", "should", "should not", "may", "need not", "will", "will not", "can" and "cannot" are to be interpreted as described in clause 3.2 of the <u>ETSI Drafting Rules</u> (Verbal forms for the expression of provisions).

"must" and "must not" are NOT allowed in ETSI deliverables except when used in direct citation.

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Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

In the present document, modal verbs have the following meanings:

shall indicates a mandatory requirement to do somethingshall not indicates an interdiction (prohibition) to do something

The constructions "shall" and "shall not" are confined to the context of normative provisions, and do not appear in Technical Reports.

The constructions "must" and "must not" are not used as substitutes for "shall" and "shall not". Their use is avoided insofar as possible, and they are not used in a normative context except in a direct citation from an external, referenced, non-3GPP document, or so as to maintain continuity of style when extending or modifying the provisions of such a referenced document.

should indicates a recommendation to do something

should not indicates a recommendation not to do something

may indicates permission to do something

need not indicates permission not to do something

The construction "may not" is ambiguous and is not used in normative elements. The unambiguous constructions "might not" or "shall not" are used instead, depending upon the meaning intended.

can indicates that something is possiblecannot indicates that something is impossible

The constructions "can" and "cannot" are not substitutes for "may" and "need not".

will indicates that something is certain or expected to happen as a result of action taken by an agency

the behaviour of which is outside the scope of the present document

will not indicates that something is certain or expected not to happen as a result of action taken by an

agency the behaviour of which is outside the scope of the present document

might indicates a likelihood that something will happen as a result of action taken by some agency the

behaviour of which is outside the scope of the present document

5

might not indicates a likelihood that something will not happen as a result of action taken by some agency

the behaviour of which is outside the scope of the present document

In addition:

is (or any other verb in the indicative mood) indicates a statement of fact

is not (or any other negative verb in the indicative mood) indicates a statement of fact

The constructions "is" and "is not" do not indicate requirements.

1 Scope

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

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

2 References

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

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

Diameter protocol; Stage 3".

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

[1]	3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and message contents".
[2]	3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter protocol; Protocol details".
[3]	3GPP TS 29.328: "IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents".
[4]	3GPP TS 29.329: "Sh Interface based on the Diameter protocol; Protocol details".
[5]	3GPP TS 32.299: "Telecommunication management; Charging management; Diameter charging applications".
[6]	3GPP TS 29.234, Release 11: "3GPP system to Wireless Local Area Network (WLAN) interworking; Stage 3".
[7]	3GPP TS 29.109: "Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Stage 3".
[8]	3GPP TS 29.209, Release 6: "Policy control over Gq interface".
[9]	IETF RFC 3588: "Diameter Base Protocol".
[10]	IETF RFC 3589: "Diameter Command Codes for Third Generation Partnership Project (3GPP) Release 5".
[11]	IANA's Enterprise-Numbers: http://www.iana.org/assignments/enterprise-numbers
[12]	IANA's AAA parameters register: ftp://ftp.iana.org/assignments/aaa-parameters/
[13]	3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".
[14]	3GPP TS 32.296: "Telecommunication management; Charging management; Online Charging System (OCS): Applications and interfaces".
[15]	3GPP TS 29.210, Release 6: "Charging rule provisioning over Gx interface".
[16]	3GPP TS 29.140, Release 6: "Multimedia Messaging Service (MMS); MM10 interface based on

[17]	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]
16777291	3GPP SGmb	29.061 [13]
16777302	3GPP Sy	29.219 [26]
16777303	3GPP Sd	29.212 [19]
16777308	3GPP S7a	29.272 [21]
	3GPP Tsp	
16777309	3GPP 1SP	29.368 [27]
16777310		29.336 [28]
16777311	3GPP T4	29.337 [29]
16777312	3GPP S6c	29.338 [30]
16777313	3GPP SGd	29.338 [30]
16777318	3GPP S15 3GPP S9a	29.212 [19]
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		ecified in GPP TS								
300	User-Authorization-Request/-Answer	UAR/UAA										
301	Server-Assignment-Request/-Answer	SAR/SAA										
302	Location-Info-Request/-Answer	LIR/LIA	29.229 [2]									
303	Multimedia-Auth-Request/-Answer	MAR/MAA			29.229 [2]		29.229 [2]		29.229 [2]			
304	Registration-Termination-Request/-	RTR/RTA										
	Answer											
305	Push-Profile-Request/-Answer	PPR/PPA										
306	User-Data-Request/-Answer	UDR/UDA										
307	Profile-Update-Request/-Answer	PUR/PUA	20	9.329 [4]								
308	Subscribe-Notifications-Request/-Answer	SNR/SNA	23	9.329 [4]								
309	Push-Notification-Request/-Answer	PNR/PNA										
310	Boostrapping-Info-Request/Answer	BIR/BIA	29	9.109 [7]								
	311 Message-Process-	Request/Answer		MPR/MI	PA	29.140						
	312 GBAPush-Info-Req	uest/Answer	•	GPR/G	PI	29.10						

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

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 8388637 TDF-Session-Request/Answer TSR/TSA 8388637 TSSF-Notification-Request/Answer TNR/TNA 8388638 Update-VCSG-Location-Request/Answer UVR/UVA 8388642 Cancel-VCSG-Location-Request/Answer DR/DAA 8388643 Device-Notification-Request/Answer DR/DAA 8388640 Device-Notification-Request/Answer DR/DAA 8388718 Configuration-Information-Request/Answer CIR/CIA 8388719 Reporting-Information-Request/Answer RIR/RIA 29.336 [28] 8388643 Device-Trigger-Request/Answer DR/DTA 29.337 [29] 8388644 Delivery-Report-Request/Answer DR/DTA 29.337 [29] 8388645 MO-Forward-Short-Message Request/Answer R	Command code value	Command name	Abbreviation	Specified in 3GPP TS	
S388622 LCS-Routing-Info-Request/Answer RIR/RIA 29.173 [25]	8388620	Provide-Location-Request/Answer	PLR/PLA		
8388635 Spending-Limit-Request/Answer SLR/SLA	8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]	
8388636 Spending-Status-Notification-Request/Answer SNR/SNA Request/Answer TSR/TSA 8388637 TDF-Session-Request/Answer TSR/TSA 29.212 [19] 8388638 TSSF-Notification-Request/Answer TNR/TNA 29.212 [19] 8388638 Update-VCSG-Location-Request/Answer UVR/UVA 8388642 Cancel-VCSG-Location-Request/Answer UVR/UVA 29.272 [21] 8388639 Device-Action-Request/Answer DAR/DAA 29.368 [27] 8388640 Device-Notification-Request/Answer DNR/DNA 29.368 [27] 8388641 Subscriber-Information-Request/Answer SIR/SIA 29.336 [28] 8388718 Configuration-Information-Request/Answer SIR/SIA 29.336 [28] 8388719 Reporting-Information-Request/Answer NIR/NIA 8388726 NIDD-Information-Request/Answer NIR/NIA 8388643 Device-Trigger-Request/Answer DTR/DTA 29.336 [28] 8388644 Delivery-Report-Request/Answer DRR/DRA 29.337 [29] 29.338 [30] Reporting-Information-Request/Answer DRR/DRA 29.337 [29] 29.338 [30] 2	8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]	
S388636 Spering-Status-Nomication-Request/Answer SNR/SNA R8388637 TDF-Session-Request/Answer TSR/TSA 29.212 [19] 8388638 Update-VCSG-Location-Request/Answer UVR/UVA 8388638 Update-VCSG-Location-Request/Answer UVR/UVA 8388642 Cancel-VCSG-Location-Request/Answer UVR/UVA 29.272 [21] 8388640 Device-Action-Request/Answer DAR/DAA 29.368 [27] 29.388641 Subscriber-Information-Request/Answer SIR/SIA 29.336 [28] 8388718 Configuration-Information-Request/Answer SIR/SIA 29.336 [28] 8388719 Reporting-Information-Request/Answer NIR/NIA 29.336 [28] 8388726 NIDD-Information-Request/Answer NIR/NIA 29.336 [28] 8388643 Device-Trigger-Request/Answer DTR/DTA 8388644 Delivery-Report-Request/Answer DTR/DTA 29.337 [29] 8388645 MO-Forward-Short-Message TFR/TFA Request/Answer Request/Answer Request/Answer Rasked Request/Answer Reque	8388635	Spending-Limit-Request/Answer	SLR/SLA	20 240 [20]	
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 29.272 [21] 8388639 Device-Notification-Request/Answer DAR/DAA 29.368 [27] 8388640 Device-Notification-Request/Answer DNR/DNA 29.368 [27] 8388641 Subscriber-Information-Request/Answer SIR/SIA 29.336 [28] 8388718 Configuration-Information-Request/Answer RIR/RIA 29.336 [28] 8388719 Reporting-Information-Request/Answer NIR/NIA 29.336 [28] 8388726 NIDD-Information-Request/Answer DTR/DTA 29.337 [29] 8388643 Device-Trigger-Request/Answer DR/DRA 29.337 [29] 8388644 Delivery-Report-Request/Answer DR/DRA 29.337 [29] 8388645 MO-Forward-Short-Message Request/Answer TFR/TFA Request/Answer SRR/SRA Request/Answer 29.338 [30] 8388647 Send-Routing-Info-for-SM- Request/Answer RDR/RDA 29.348 [31] 8388668 <td>8388636</td> <td></td> <td>SNR/SNA</td> <td>29.219 [26]</td>	8388636		SNR/SNA	29.219 [26]	
8388638 Update-VCSG-Location-Request/Answer UVR/UVA 8388642 Cancel-VCSG-Location-Request/Answer CVR/CVA 8388639 Device-Action-Request/Answer DAR/DAA 8388640 Device-Notification-Request/Answer DNR/DNA 8388641 Subscriber-Information-Request/Answer SIR/SIA 8388718 Configuration-Information-Request/Answer CIR/CIA 8388719 Reporting-Information-Request/Answer RIR/RIA 8388726 NIDD-Information-Request/Answer NIR/NIA 8388643 Device-Trigger-Request/Answer DTR/DTA 8388644 Delivery-Report-Request/Answer DRR/DRA 8388645 MO-Forward-Short-Message Request/Answer DFR/OFA 8388646 MT-Forward-Short-Message Request/Answer TFR/TFA 8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388669 Trigger-Establishment-Request/Answer GRR/GAA 8388661 Trigger-Establishment-Request/Answer GRR/GAA 8388666 GCS-Notification-Request/Answer	8388637	TDF-Session-Request/Answer	TSR/TSA	20 242 [40]	
8388642 Cancel-VCSG-Location-Request/Answer CVR/CVA 29.272 [21] 8388639 Device-Action-Request/Answer DAR/DAA 29.368 [27] 8388640 Device-Notification-Request/Answer DNR/DNA 29.368 [27] 8388641 Subscriber-Information-Request/Answer SIR/SIA 29.336 [28] 8388718 Configuration-Information-Request/Answer RIR/RIA 29.336 [28] 8388719 Reporting-Information-Request/Answer NIR/NIA 29.336 [28] 8388726 NIDD-Information-Request/Answer NIR/NIA 29.337 [29] 8388643 Device-Trigger-Request/Answer DRR/DRA 29.337 [29] 8388644 Delivery-Report-Request/Answer DRR/DRA 29.337 [29] 8388645 MO-Forward-Short-Message Request/Answer TFR/TFA 29.338 [30] 8388646 MT-Forward-Short-Message Request/Answer SRR/SRA 29.338 [30] 8388647 Send-Routing-Info-for-SM-Request/Answer RRQuest/Answer ALR/ALA 8388648 Alert-Service-Centre-Request/Answer RDR/RDA 8388669 Trigger-Establishment-Request/Answer GRR/GAA <td>8388731</td> <td>·</td> <td></td> <td>29.212 [19]</td>	8388731	·		29.212 [19]	
8388639 Device-Action-Request/Answer DAR/DAA 8388640 Device-Notification-Request/Answer DNR/DNA 8388641 Subscriber-Information-Request/Answer SIR/SIA 29.336 [28] 8388718 Configuration-Information-Request/Answer CIR/CIA 8388719 Reporting-Information-Request/Answer RIR/RIA 29.336 [28] 8388726 NIDD-Information-Request/Answer NIR/NIA 29.337 [29] 8388643 Device-Trigger-Request/Answer DTR/DTA 29.337 [29] 8388644 Delivery-Report-Request/Answer DRR/DRA 29.337 [29] 8388645 MO-Forward-Short-Message Request/Answer DFR/OFA Request/Answer SRR/SRA 8388646 MT-Forward-Short-Message Request/Answer SRR/SRA 29.338 [30] 8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA 29.338 [30] 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 29.338 [30] 8388669 Trigger-Establishment-Request/Answer GAR/GAA 29.215 [30] 8388661 GCS-Action-Request/Answer GNR/GNA 29.468 [31] <	8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	20 272 [24]	
8388640 Device-Notification-Request/Answer DNR/DNA 29.368 [27] 8388641 Subscriber-Information-Request/Answer SIR/SIA 29.336 [28] 8388718 Configuration-Information-Request/Answer CIR/CIA 8388719 Reporting-Information-Request/Answer RIR/RIA 29.336 [28] 8388726 NIDD-Information-Request/Answer NIR/NIA 29.336 [28] 8388643 Device-Trigger-Request/Answer DTR/DTA 8388644 Delivery-Report-Request/Answer DRR/DRA 8388645 MO-Forward-Short-Message Request/Answer DFR/OFA 8388646 MT-Forward-Short-Message Request/Answer TFR/TFA 8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status-Request/Answer REQUest/Answer 8388660 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GNR/GNA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.344 [33]	8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]	
Subscriber-Information-Request/Answer SIR/SIA 29.336 [28]	8388639	Device-Action-Request/Answer	DAR/DAA		
S388718	8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]	
Request/Answer Rik/RiA 29.336 [28]	8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]	
8388719 Reporting-Information-Request/Answer RIR/RIA 29.336 [28] 8388726 NIDD-Information-Request/Answer NIR/NIA 8388643 Device-Trigger-Request/Answer DTR/DTA 8388643 Delivery-Report-Request/Answer DRR/DRA 8388644 Delivery-Report-Request/Answer DRR/DRA 8388645 MO-Forward-Short-Message Request/Answer OFR/OFA 8388646 MT-Forward-Short-Message Request/Answer TR/TFA 8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status-Request/Answer REDR/RDA 8388650 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer HIR/PIA 29.346 [31] 8388664 ProSe-Subscriber-Data-Request/Answer Request/Answer PNR/PNA 8388665 Update-ProSe-Subscriber-Data-Request/Answer PNR/PNA 8388666 ProSe-Notify-Request/Answe	8388718		CIR/CIA		
8388643 Device-Trigger-Request/Answer DTR/DTA 8388644 Delivery-Report-Request/Answer DRR/DRA 8388645 MO-Forward-Short-Message Request/Answer OFR/OFA Request/Answer 8388646 MT-Forward-Short-Message Request/Answer TFR/TFA Request/Answer 8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA Request/Answer 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status-Request/Answer RDR/RDA Request/Answer 8388656 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA PIR/PIA 29.344 [33] 8388665 Update-ProSe-Subscriber-Data-Request/Answer PNR/PNA PNR/PNA 29.344 [33] 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA Request/Answer 8388668 ProSe-Authorization-Request/Answer PAR/PAA 29.345 [34]	8388719		RIR/RIA	29.336 [28]	
8388644 Delivery-Report-Request/Answer DRR/DRA 29.337 [29] 8388645 MO-Forward-Short-Message Request/Answer OFR/OFA Request/Answer 8388646 MT-Forward-Short-Message Request/Answer TFR/TFA Request/Answer 8388647 Send-Routing-Info-for-SM- Request/Answer SRR/SRA Request/Answer 29.338 [30] 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status- Request/Answer RDR/RDA 8388650 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information- Request/Answer PIR/PIA Request/Answer 29.344 [33] 8388665 Update-ProSe-Subscriber-Data- Request/Answer PNR/PNA 29.344 [33] 8388666 ProSe-Initial-Location-Information- Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388726	NIDD-Information-Request/Answer	NIR/NIA		
8388645 MO-Forward-Short-Message Request/Answer OFR/OFA 8388646 MT-Forward-Short-Message Request/Answer TFR/TFA 8388647 Send-Routing-Info-for-SM- Request/Answer SRR/SRA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status- Request/Answer RDR/RDA 8388656 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information- Request/Answer PIR/PIA 8388665 Update-ProSe-Subscriber-Data- Request/Answer UPR/UPA 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information- Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388643	Device-Trigger-Request/Answer	DTR/DTA		
Request/Answer	8388644	Delivery-Report-Request/Answer	DRR/DRA	29.337 [29]	
8388646 MT-Forward-Short-Message Request/Answer TFR/TFA 8388647 Send-Routing-Info-for-SM- Request/Answer SRR/SRA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status- Request/Answer RDR/RDA 8388656 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information- Request/Answer PIR/PIA 8388665 Update-ProSe-Subscriber-Data- Request/Answer UPR/UPA 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information- Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388645		OFR/OFA		
8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status-Request/Answer RDR/RDA 8388650 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 29.3468 [31] 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 29.344 [33] 8388666 ProSe-Notify-Request/Answer PNR/PNA 29.344 [33] 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA 29.344 [33] 8388668 ProSe-Authorization-Request/Answer PAR/PAA 29.345 [34]	8388646	MT-Forward-Short-Message	TFR/TFA		
8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status-Request/Answer RDR/RDA 8388656 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388647	Send-Routing-Info-for-SM-	SRR/SRA	29.338 [30]	
Request/Answer 8388656 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA Request/Answer B388665 Update-ProSe-Subscriber-Data-Request/Answer PNR/PNA 29.344 [33] 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA Request/Answer 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388648		ALR/ALA		
8388656 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 8388663 GCS-Notification-Request/Answer GNR/GNA 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 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 29.345 [34]	8388649		RDR/RDA		
8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388656		TER/TEA	29.215 [30]	
8388663 GCS-Notification-Request/Answer GNR/GNA 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 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 29.345 [34]	8388662	GCS-Action-Request/Answer	GAR/GAA		
Request/Answer 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPAREQUEST/Answer 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSARequest/Answer 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388663	GCS-Notification-Request/Answer	GNR/GNA	29.468 [31]	
8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 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 29.345 [34]	8388664		PIR/PIA		
8388666 ProSe-Notify-Request/Answer PNR/PNA 29.344 [33] 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388665	Update-ProSe-Subscriber-Data-	UPR/UPA		
Request/Answer 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388666		PNR/PNA	29.344 [33]	
8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388713		PSR/PSA		
29.345 [34]	8388668		PAR/PAA		
	8388669	ProSe-Discovery-Request/Answer	PDR/PDA	29.345 [34]	
	8388670	ProSe-Match-Request/Answer	PMR/PMA	- 1- 1	

8388671	ProSe-Match-Report-Info- Request/Answer	PIR/PIA	
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	
8388674	ProSe-Alert-Request/Answer	ALR/ALA	
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	
8388676	ProXimity-Action-Request/Answer	PXR/PXA	00 0 40 [00]
8388727	ProXimity-Application-Request/Answer	XAR/XAA	29.343 [32]
8388720	Non-Aggregated-RUCI-Report- Request/Answer	NRR/NRA	
8388721	Aggregated-RUCI-Report- Request/Answer	ARR/ARA	29.217 [35]
8388722	Modify-Uecontext-Request/Answer	MUR/MUA	
8388724	Network-Status-Request/Answer	NSR/NSA	00 450 [07]
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	20.454 [20]
8388736	Event-Reporting-Request/Answer	ERR/ERA	29.154 [38]

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

In the SigPP No. Cotes SigP No.	AVP	Attribute Name	Data Type	Specified
101 3GPP-WIAN-QoS-Filter-Rule	Code		,	
102 3GPP-WLAN-QoS-Filter-Support				
Note: The AVP codes from 1 to 255 are reserved for backwards compatibility with 3GPP RADIUS Vendor Specific Antibutes (See 3GPP Ts 29.061 [13], 3GPP Ts 29.661 [14] and 3GPP TS 29.24 [6]				29.234 [6]
Attributes (See 3GPP TS 29.061 [13], 3GPP TS 29.61 [42] and 3GPP TS 29.234 [6]) Note: The AVP codes from 256 to 299 are reserved for future use. 300 Authentication-Method Cutefistring 301 Authentication-Information-SIM Octefistring 302 Authorization Information-SIM Octefistring 303 AVAN-LISE-Obtas Grouped 304 Charging-Date Grouped 305 WLAN-Ascess Enumerated 307 APN-Authorized Grouped 308 APN-Barring-Type Enumerated 309 APN-Barring-Type Enumerated 311 Session-Request-Type Enumerated 312 Routing-Policy Enumerated 313 Max-Requested-Bandwidth OctetString 316 Charging-Policy Grouped 317 Charging-Policy Grouped 318 GPP-AA-Server-Name Diameteridentity 319 Maximum-Number-Accesses Unsigned32 Note 1: The AVP codes from 320 to 399 are reserved for TS 29.234 Note 1: The AVP codes from 320 to 399				
300 Authentication-Method Enumerated	Attribu	ites (See 3GPP TS 29.061 [13], 3GPP TS 29.561 [42] and 3GP		Specific
301 Authentication-Information-SIM OctetString Oct			Figure a rest e d	
302 Authorization -Information-SIM GotelString Grouped				
MILAN-User-Data Grouped				
Oharqing-Data Grouped			Ŭ	
305 WLAN-Access Enumerated				
APN-Authorized				
308 APN-Barring-Type	306	WLAN- 3GPP-IP-Access	Enumerated	
APN-Barring-Type			Grouped	
310 MUAN-Direct-IP-Access				
State Stat				29.234 [6]
Routing-Policy IPFilterRule				
Max-Requested-Bandwidth				
Charging-Characteristics Integer				
State Charging-Nodes Grouped				
Primary-OCS-Charging-Function-Name DiameterIdentity				
33 33 34 34 35 37 37 38 38 38 38 38 39 39				
Note 1: The AVP codes from 320 to 399 are reserved for TS 29.234 Note 2: The 3GPP-AAA-Server-Name definition is moved to TS 29.273 starting from Rel-12. 400				
Note 2: The 3GPP-AAA-Server-Name definition is moved to TS 29.273 starting from Rel-12.	319	Maximum-Number-Accesses	Unsigned32	
A01 GBA-UserSecSettings OctetString				
				1
AVE-Hostname				
A03 GAA-Service-Identifier CotetString				
ME-Key-Material				
406 UICC-Key-Material OctetString				
407 GBA U-Awareness-Indicator Enumerated 408 BootstrapInfoCreationTime Time Time 1400 GUSS-Timestamp Time 1410 GBA-Type Enumerated 29,109 [7] 1411 UE-Id OctetString 1412 UE-Id-Type Enumerated 1413 UICC-App-Label OctetString Enumerated 1414 UICC-ME Enumerated 1415 Requested-Key-Lifetime Time 1416 Private-Identity-Request Enumerated 1417 GBA-Push-Info OctetString 1418 NAF-SA-Identifier OctetString 1419 Security-Feature-Response OctetString 1419 Security-Feature-Response OctetString OctetString 1419 Security-Feature-Response OctetString OctetS	405	IIICC-Key-Material		
410 GBA-Type	407	GBA_U-Awareness-Indicator		
410 GBA-Type			Time	
411 UE-Id OctetString 412 UE-Id-Type Enumerated 413 UICC-App-Label OctetString 414 UICC-ME Enumerated 415 Requested-Key-Lifetime Enumerated 416 Private-Identity-Request Enumerated 417 GBA-Push-Info OctetString 418 NAF-SA-Identifier OctetString 419 Security-Feature-Request OctetString 420 Security-Feature-Response OctetString Note: The AVP codes from 421 to 499 are reserved for TS 29.109 500 Abort-Cause Enumerated 501 Access-Network-Charging-Address Address 502 Access-Network-Charging-Identifier Grouped 503 Access-Network-Charging-Identifier OctetString 504 AF-Application-Identifier OctetString 505 AF-Charging-Identifier OctetString 506 Authorization-Token IPFilterRule 507 Flow-Description IPFilterRule 508 Flow-Grouping Grouped 509 Flow-Number Unsigned32 510 Flows Grouped 511 Flow-Usage Enumerated 513 Specific-				20 400 [7]
412 UE-Id-Type Enumerated 413 UICC-App-Label OctetString 414 UICC-ME Enumerated 415 Requested-Key-Lifetime Time 416 Private-Identity-Request Enumerated 417 GBA-Push-Info OctetString 418 NAF-SA-Identifier OctetString 419 Security-Feature-Request OctetString 420 Security-Feature-Response OctetString Note: The AVP codes from 421 to 499 are reserved for TS 29.109 500 Abort-Cause Enumerated 501 Access-Network-Charging-Address Address 502 Access-Network-Charging-Identifier Grouped 503 Access-Network-Charging-Identifier OctetString 504 AF-Application-Identifier OctetString 505 AF-Charging-Identifier OctetString 506 Authorization-Token OctetString 507 Flow-Description IPFilterRule 509 Flow-Number Unsigned32 510 Flows Grouped 511 Flow-Status Enumerated 512 Flow-Usage Enumerated 513 Specific-Action Enumerated	410	UF-Id		29.109 [7]
413 UICC-App-Label 414 UICC-ME Enumerated 415 Requested-Key-Lifetime Time 416 Private-Identity-Request Enumerated 417 GBA-Push-Info OctetString 418 NAF-SA-Identifier OctetString 419 Security-Feature-Request OctetString 420 Security-Feature-Response Note: The AVP codes from 421 to 499 are reserved for TS 29.109 Note: The AVP codes from 421 to 499 are reserved for TS 29.109 Note: The AVP codes from 421 to 499 are reserved for TS 29.109 Abort-Cause Sol Access-Network-Charging-Address Address OctetString OctetString OctetString OctetString OctetString OctetString Flow-AF-Application-Identifier OctetString OctetString OctetString OctetString Flow-Description IPFilterRule Flow-Description IPFilterRule Flow-Number Unsigned32 Flow-Status Enumerated Flow-Usage Flow-Usage Flow-Usage Flow-Usage Flow-Usage Flow-Usage Flow-merated Flow-Getfice Fire Flow-Benumerated Flow-Usage Flow-Usage Flow-Usage Flow-Usage Flow-merated Flow-merated Flow-merated Flow-merated Flow-Getfice Flow-Usage Flow-Usage Flow-merated Flow-me				
415 Requested-Key-Lifetime Time 416 Private-Identity-Request Enumerated 417 GBA-Push-Info OctetString 418 NAF-SA-Identifier OctetString 419 Security-Feature-Request OctetString 420 Security-Feature-Response OctetString Note: The AVP codes from 421 to 499 are reserved for TS 29.109 Enumerated 500 Abort-Cause Enumerated 501 Access-Network-Charging-Address Address 502 Access-Network-Charging-Identifier Grouped 503 Access-Network-Charging-Identifier-Value OctetString 504 AF-Application-Identifier OctetString 505 AF-Charging-Identifier OctetString 506 Authorization-Token OctetString 507 Flow-Description IPFilterRule 508 Flow-Grouping Grouped 509 Flow-Number Unsigned32 501 Flow-Status Enumerated 512 Flow-Usage Enumerated <t< td=""><td>413</td><td>UICC-App-Label</td><td></td><td></td></t<>	413	UICC-App-Label		
416Private-Identity-RequestEnumerated417GBA-Push-InfoOctetString418NAF-SA-IdentifierOctetString429Security-Feature-RequestOctetString420Security-Feature-ResponseOctetStringNote: The AVP codes from 421 to 499 are reserved for TS 29.109500Abort-CauseEnumerated501Access-Network-Charging-AddressAddress502Access-Network-Charging-IdentifierGrouped503Access-Network-Charging-IdentifierOctetString504AF-Application-IdentifierOctetString505AF-Charging-IdentifierOctetString506Authorization-TokenOctetString507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32510FlowsGrouped511Flow-StatusEnumerated512Flow-UsageEnumerated513Specific-ActionEnumerated				
417GBA-Push-InfoOctetString418NAF-SA-IdentifierOctetString419Security-Feature-RequestOctetString420Security-Feature-ResponseOctetStringNote: The AVP codes from 421 to 499 are reserved for TS 29.109500Abort-CauseEnumerated501Access-Network-Charging-AddressAddress502Access-Network-Charging-IdentifierGrouped503Access-Network-Charging-Identifier OctetStringOctetString504AF-Application-IdentifierOctetString505AF-Charging-IdentifierOctetString506Authorization-TokenOctetString507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32510FlowsGrouped511Flow-StatusEnumerated512Flow-UsageEnumerated513Specific-ActionEnumerated	415	Private-Identity-Request		
419Security-Feature-Request 420OctetString420Security-Feature-ResponseOctetStringNote: The AVP codes from 421 to 499 are reserved for TS 29.109500Abort-CauseEnumerated501Access-Network-Charging-AddressAddress502Access-Network-Charging-IdentifierGrouped503Access-Network-Charging-Identifier OctetStringOctetString504AF-Application-IdentifierOctetString505AF-Charging-IdentifierOctetString506Authorization-TokenOctetString507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32510FlowsGrouped511Flow-StatusEnumerated512Flow-UsageEnumerated513Specific-ActionEnumerated				
420Security-Feature-ResponseOctetStringNote: The AVP codes from 421 to 499 are reserved for TS 29.109500Abort-CauseEnumerated501Access-Network-Charging-AddressAddress502Access-Network-Charging-IdentifierGrouped503Access-Network-Charging-IdentifierOctetString504AF-Application-IdentifierOctetString505AF-Charging-IdentifierOctetString506Authorization-TokenOctetString507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32510FlowsGrouped511Flow-StatusEnumerated512Flow-UsageEnumerated513Specific-ActionEnumerated	418	NAF-SA-Identifier		
Note: The AVP codes from 421 to 499 are reserved for TS 29.109 500 Abort-Cause	419	Security-Feature-Request		
500Abort-CauseEnumerated501Access-Network-Charging-AddressAddress502Access-Network-Charging-IdentifierGrouped503Access-Network-Charging-IdentifierOctetString504AF-Application-IdentifierOctetString505AF-Charging-IdentifierOctetString506Authorization-TokenOctetString507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32510FlowsGrouped511Flow-StatusEnumerated512Flow-UsageEnumerated513Specific-ActionEnumerated			Octerstring	
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502Access-Network-Charging-IdentifierGrouped503Access-Network-Charging-Identifier-ValueOctetString504AF-Application-IdentifierOctetString505AF-Charging-IdentifierOctetString506Authorization-TokenOctetString507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32510FlowsGrouped511Flow-StatusEnumerated512Flow-UsageEnumerated513Specific-ActionEnumerated				-
503Access-Network-Charging-Identifier-ValueOctetString504AF-Application-IdentifierOctetString505AF-Charging-IdentifierOctetString506Authorization-TokenOctetString507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32510FlowsGrouped511Flow-StatusEnumerated512Flow-UsageEnumerated513Specific-ActionEnumerated				
505 AF-Charging-Identifier OctetString 29.209 506 Authorization-Token OctetString [8], 507 Flow-Description IPFilterRule 1[17], 508 Flow-Grouping Grouped 29.211 509 Flow-Number Unsigned32 [18] 510 Flows Grouped 511 511 Flow-Status Enumerated 512 Flow-Usage Enumerated 513 Specific-Action Enumerated	503	Access-Network-Charging-Identifier-Value	OctetString	
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 [18] 511 Flow-Status Enumerated 512 Flow-Usage Enumerated 513 Specific-Action Enumerated				20,200
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508 Flow-Grouping Grouped 29.214 509 Flow-Number Unsigned32 [18] 510 Flows Grouped 511 Flow-Status Enumerated 512 Flow-Usage Enumerated 513 Specific-Action Enumerated				
510 Flows Grouped 511 Flow-Status Enumerated 512 Flow-Usage Enumerated 513 Specific-Action Enumerated				29.214
511Flow-StatusEnumerated512Flow-UsageEnumerated513Specific-ActionEnumerated				[18]
512Flow-UsageEnumerated513Specific-ActionEnumerated				-
513 Specific-Action Enumerated				

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	Max-Requested-Bandwidth-DL	Unsigned32	<u> </u>
	Max-Requested-Bandwidth-UL	Unsigned32	
	Media-Component-Description	Grouped	
	Media-Component-Number	Unsigned32	
	Media-Sub-Component AVP	Grouped	<u> </u>
520	Media-Type	Enumerated	<u> </u>
521	RR-Bandwidth	Unsigned32	
522	RS-Bandwidth	Unsigned32	
523	SIP-Forking-Indication	Enumerated	
524	Codec-Data	OctetString	
525	Service-URN	OctetString	
526	Acceptable-Service-Info	Grouped	
527	Service-Info-Status	Enumerated	Ī
528	MPS-Identifier	OctetString	
529	AF-Signalling-Protocol	Enumerated	
	Sponsored-Connectivity-Data	Grouped	
	Sponsor-Identity	OctetString	1
	Application-Service-Provider-Identity	OctetString	<u>-</u>
	Rx-Request-Type	Enumerated	1
	Min-Requested-Bandwidth-DL	Unsigned32	†
	Min-Requested-Bandwidth-UL	Unsigned32	†
	Required-Access-Info	Enumerated	†
	IP-Domain-Id	OctetString	†
	GCS-Identifier	OctetString	†
	Sharing-Key-DL	Unsigned32	1
	Sharing-Key-UL	Unsigned32	1
	Retry-Interval	Unsigned32	1
	Sponsoring-Action	Enumerated	4
			4
	Max-Supported-Bandwidth-DL	Unsigned32	4
	Max-Supported-Bandwidth-UL	Unsigned32	4
	Min-Desired-Bandwidth-DL	Unsigned32	
	Min-Desired-Bandwidth-UL	Unsigned32	1
	MCPTT-Identifier	OctetString	<u> </u>
	Service-Authorization-Info	Unsigned32	<u> </u>
	Media-Component-Status	Unsigned32	<u> </u>
	Priority-Sharing-Indicator	Enumerated	
	AF-Requested-Data	Unsigned32	<u> </u>
	Content-Version	Unsigned64	
	Pre-emption-Control-Info	Unsigned32	
	Extended-Max-Requested-BW-DL	Unsigned32	<u> </u>
	Extended-Max-Requested-BW-UL	Unsigned32	
556	Extended-Max-Supported-BW-DL	Unsigned32	
557	Extended-Max-Supported-BW-UL	Unsigned32	
558	Extended-Min-Desired-BW-DL	Unsigned32	
	Extended-Min-Desired-BW-UL	Unsigned32	
	Extended-Min-Requested-BW-DL	Unsigned32	1
	Extended-Min-Requested-BW-UL	Unsigned32	1
	MCVideo-Identifier	OctetString	1
	IMS-Content-Identifier	OctetString	†
	IMS-Content-Type	Enumerated	1
	The AVP codes from 563 to 599 are reserved for TS 29.209, TS		<u> </u>
	Visited-Network-Identifier	OctetString	
	Public-Identity	UTF8String	1
	Server-Name	UTF8String	†
	Server-Capabilities	Grouped	†
	Mandatory-Capability	Unsigned32	†
	Optional-Capability	Unsigned32	1
	User-Data	OrtetString	+
			29.229 [2]
	SIP-Number-Auth-Items	Unsigned32	+
	SIP-Authentication-Scheme	UTF8String	1
	SIP-Authenticate	OctetString	4
	SIP-Authorization	OctetString	1
	SIP-Authentication-Context	OctetString	1
	SIP-Auth-Data-Item	Grouped	<u> </u>
613	SIP-Item-Number	Unsigned32	

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	Server-Assignment-Type	Enumerated	•
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
	Reason-Info	UTF8String	l I
	Charging-Information	Grouped	†
	Primary-Event-Charging-Function-Name	DiameterURI	l I
	Secondary-Event-Charging-Function-Name	DiameterURI DiameterURI	†
	Primary-Charging-Collection-Function-Name	DiameterURI	†
	Secondary-Charging-Collection-Function-Name User-Authorization-Type	Enumerated	<u> </u>
	User-Data-Already-Available	Enumerated	<u> </u>
	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	<u> </u>
	User-Data-Request-Type	Enumerated	<u> </u>
	Supported-Features	Grouped	<u> </u>
	Feature-List-ID	Unsigned32	t
	Feature-List	Unsigned32	
	Supported-Applications	Grouped	†
	Associated-Identities	Grouped	<u> </u>
	Originating-Request	Enumerated	†
	Wildcarded-Public-Identity	UTF8String	†
	SIP-Digest-Authenticate	Grouped	1
	Wildcarded-IMPU	UTF8String	1
	UAR-Flags	Unsigned32]
	Loose-Route-Indication	Enumerated	
	SCSCF-Restoration-Info	Grouped	Ī
640	Path	OctetString	
641	Contact	OctetString	
	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	ļ
	Record-Route	OctetString	ļ
	Associated-Registered-Identities	Grouped	<u> </u>
	Multiple-Registration-Indication	Enumerated	•
	Restoration-Info	Grouped	<u> </u>
	Session-Priority	Enumerated	
	Identity-with-Emergency-Registration	Grouped	1
	Priviledged-Sender-Indication	Enumerated	
	LIA-Flags Initial-CSeq-Sequence-Number	Unsigned32	<u> </u>
		Unsigned32 Unsigned32	<u> </u>
	SAR-Flags Allowed-WAF-WWSF-Identities	Grouped	<u> </u>
	WebRTC-Authentication-Function-Name	UTF8String	1
	WebRTC-Admentication-Function-Name	UTF8String	†
	RTR-Flags	Unsigned32	†
	The AVP codes from 660 to 699 are reserved for TS 29.229.		I
	User-Identity	Grouped	
	MSISDN	OctetString	†
	User-Data	OctetString	†
	Data-Reference	Enumerated	†
	Service-Indication	OctetString	†
	Subs-Reg-Type	Enumerated	†
	Requested-Domain	Enumerated	†
	Current-Location	Enumerated	†
	Identity-Set	Enumerated	20 200 543
	Expiry-Time	Time	29.329 [4]
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString]
	One-Time-Notification	Enumerated]
	Requested-Nodes	Unsigned32	_
	Serving-Node-Indication	Enumerated	.
	Repository-Data-ID	Grouped	ļ
	Sequence-Number	Unsigned32	ļ
717	Pre-paging-Supported	Enumerated	

740	Land Time Zama Indication	Farmer and all	
	Local-Time-Zone-Indication	Enumerated	4
	UDR-Flags	Unsigned32	_
	Call-Reference-Info Call-Reference-Number	Grouped	4
	AS-Number	OctetString	-
	The AVP codes from 723 to 799 are reserved for TS 29.329.	OctetString	
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
	Event-Type	Grouped	
	SIP-Method	UTF8String	=
	Event	UTF8String	=
	Content-Type	UTF8String	=
	Content-Type Content-Length	Unsigned32	-
	Content-Disposition	UTF8String	-
	Role-of-Node	Enumerated	7
	User-Session-Id	UTF8String	-
	Calling-Party-Address	UTF8String	-
	Called-Party-Address	UTF8String	-
	Time-Stamps	Grouped	-
	SIP-Request-Timestamp	Time	7
	SIP-Response-Timestamp	Time	7
	Application-Server	UTF8String	7
	Application-provided-called-party-address	UTF8String	7
	Inter-Operator-Identifier	Grouped	7
	Originating-IOI	UTF8String	7
840	Terminating-IOI	UTF8String	7
	IMS-Charging-Identifier	UTF8String	7
	SDP-Session-Description	UTF8String	
843	SDP-Media-Component	Grouped	1
844	SDP-Media-Name	UTF8String	
845	SDP-Media-Description	UTF8String	
	CG-Address	Address	
	GGSN-Address	Address	
	Served-Party-IP-Address	Address	
	Authorized-QoS	UTF8String	
	Application-Server-Information	Grouped	
	Trunk-Group-Id	Grouped	32.299 [5]
	Incoming-Trunk-Group-Id	UTF8String	02.200 [0]
	Outgoing-Trunk-Group-Id	UTF8String	_
	Bearer-Service	OctetString	-
	Service-Id	UTF8String	_
	Associated-URI	UTF8String	_
	Charged-Party	UTF8String	_
	PoC-Controlling-Address	UTF8String	→
	PoC-Group-Name	UTF8String	_
	Cause Code	Grouped	-
	Cause-Code Node-Functionality	Integer32 Enumerated	
	Service-Specific-Data	UTF8String	
	Originator	Enumerated	
	PS-Furnish-Charging-Information	Grouped	
	PS-Free-Format-Data	OctetString	+
	PS-Append-Free-Format-Data	Enumerated	
	Time-Quota-Threshold	Unsigned32	
	Volume-Quota-Threshold	Unsigned32	┪ !
	Trigger-Type	Enumerated	┪ !
	Quota-Holding-Time	Unsigned32	7
	Reporting-Reason	Enumerated	7
	Service-Information	Grouped	7
	PS-Information	Grouped	7
	Reserved	-	\neg
	IMS-Information	Grouped	
	MMS-Information	Grouped	
	LCS-Information	Grouped	
	PoC-Information	Grouped	
880	MBMS-Information	Grouped	

	I			1
	Quota-Consumption-Time	Unsigne		1
	Media-Initiator-Flag	Enumer		1
	PoC-Server-Role	Enumer	ated	1
	PoC-Session-Type	Enumer		1
885	Number-Of-Participants	Unsigne	ed32	1
886	Originator-Address	Group	ed	
	Participants-Involved	UTF8S		1
	Expires	Unsigne		†
	Message-Body	Group		†
	Reserved	Group	,cu	†
	Reserved	_		†
		-		+
	Reserved	-		1
	Reserved	-		1
	Reserved	-		1
	Reserved	-		1
	Reserved	-		1
897	Address-Data	UTF8S	tring	
898	Address-Domain	Group	ed	1
899	Address-Type	Enumer		1
900	TMGI	OctectS	trina	
	Required-MBMS-Bearer-Capabilities	UTF8S:		†
	MBMS-StartStop-Indication	Enumer		1
				1
	MBMS-Service-Area	OctectS		
	MBMS-Session-Duration	Unsigne		,
	Alternative-APN	UTF8S		1
	MBMS-Service-Type	Enumer		1
907	MBMS-2G-3G-Indicator	Enumer	ated	
908	MBMS-Session-Identity	OctetSt	tring	
909		UTF8S		1
	Additional-MBMS-Trace-Info	OctetSt		†
	MBMS-Time-To-Data-Transfer	Unsigne		†
	MBMS-Session-Identity-Repetition-Number	Unsigne		†
				+
	MBMS-Required-QoS	UTF8S		1
	MBMS-Counting-Information	Enumer		1
	MBMS-User-Data-Mode-Indication	Enumer		1
	MBMS-GGSN-Address	UTF8S		29.061
	MBMS-GGSN-IPv6-Address	UTF8S		[13]
	MBMS-BMSC-SSM-IP-Address	UTF8S		[10]
919	MBMS-BMSC-SSM-IPv6-Address	UTF8S	tring	1
920	MBMS-Flow-Identifier	OctetSt	tring	
921	CN-IP-Multicast-Distribution	Enumer	ated	1
	MBMS-HC-Indicator	Enumer	ated	1
	MBMS-Access-Indicator	Enumer		†
	MBMS-GW-SSM-IP-Address	OctetSt		†
	MBMS-GW-SSM-IPv6-Address	OctetSt		+
	MBMS-BMSC-SSM-UDP-Port	OctetSt		+
				+
	MBMS-GW-UDP-Port	OctetSt		
	MBMS-GW-UDP-Port-Indicator	Enumer		1
	MBMS-Data-Transfer-Start	Unsigne		1
	MBMS-Data-Transfer-Stop	Unsigne]
931	MBMS-Flags	Unsigne	ed32	
	Restart-Counter	Unsigne]
	Diagnostic-Info	Unsigne		1
	MBMS-Cell-List	OctetSt		1
	The AVP codes from 935 to 999 are reserved for TS 29.061	30.00	·····•	•
	Bearer-Usage	Enumerated		
	Charging-Rule-Install	Grouped		
	Charging-Rule-Remove	Grouped		
	Charging-Rule-Definition	Grouped		
	Charging-Rule-Base-Name	UTF8String	29.212 [19]	
	Charging-Rule-Name	OctetString		
1006	Event-Trigger	Enumerated		
	Metering-Method	Enumerated		
1007	Metering-Method Offline	Enumerated Enumerated		

	Online	Enumerated
	Precedence	Unsigned32
	Reporting-Level	Enumerated
	TFT-Filter	IPFilterRule
	TFT-Packet-Filter-Information	Grouped
	ToS-Traffic-Class	OctetString
	QoS-Information	Grouped
	Charging-Rule-Report PCC-Rule-Status	Grouped Enumerated
	Bearer-Identifier	OctetString
	Bearer-Operation	Enumerated
	Access-Network-Charging-Identifier-Gx	Grouped
	Bearer-Control-Mode	Enumerated
	Network-Request-Support	Enumerated
	Guaranteed-Bitrate-DL	Unsigned32
	Guaranteed-Bitrate-UL	Unsigned32
	IP-CAN-Type	Enumerated
	QoS-Class-Identifier	Enumerated
1029	QoS-Negotiation	Enumerated
	QoS-Upgrade	Enumerated
	Rule-Failure-Code	Enumerated
1032		Enumerated
1033		Grouped
	Allocation-Retention-Priority	Grouped
	CoA-IP-Address	Address
	Tunnel-Header-Filter	IPFilterRule
	Tunnel-Header-Length	Unsigned32
	Tunnel-Information	Grouped
	CoA-Information	Grouped
	APN-Aggregate-Max-Bitrate-DL APN-Aggregate-Max-Bitrate-UL	Unsigned32 Unsigned32
1041		Time
1042	Revalidation-Time Rule-Activation-Time	Time
1043	Rule-Activation-Time Rule-DeActivation-Time	Time
1044	Session-Release-Cause	Enumerated
	Priority-Level	Unsigned32
	Pre-emption-Capability	Enumerated
	Pre-emption-Vulnerability	
		Enumerated
1049		Enumerated Grouped
	Default-EPS-Bearer-QoS	Enumerated Grouped Address
1050	Default-EPS-Bearer-QoS AN-GW-Address	Grouped Address
1050 1051	Default-EPS-Bearer-QoS	Grouped
1050 1051 1052	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install	Grouped Address Grouped
1050 1051 1052 1053 1054	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name	Grouped Address Grouped Grouped
1050 1051 1052 1053 1054 1055	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report	Grouped Address Grouped Grouped Grouped OctetString Grouped
1050 1051 1052 1053 1054 1055 1056	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString
1050 1051 1052 1053 1054 1055 1056 1057	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString
1050 1051 1052 1053 1054 1055 1056 1057 1058	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label Flow-Information	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped
1050 1051 1052 1053 1054 1055 1056 1057 1058 1059	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label Flow-Information Packet-Filter-Content	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped IPFilterRule
1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label Flow-Information Packet-Filter-Content Packet-Filter-Identifier	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped IPFilterRule OctetString
1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label Flow-Information Packet-Filter-Content Packet-Filter-Information	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString OctetString Grouped IPFilterRule OctetString Grouped
1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label Flow-Information Packet-Filter-Content Packet-Filter-Information Packet-Filter-Information Packet-Filter-Operation	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString OctetString Grouped IPFilterRule OctetString Grouped Enumerated
1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label Flow-Information Packet-Filter-Content Packet-Filter-Identifier Packet-Filter-Information Packet-Filter-Operation Resource-Allocation-Notification	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated
1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label Flow-Information Packet-Filter-Content Packet-Filter-Identifier Packet-Filter-Information Packet-Filter-Information Packet-Filter-Operation Resource-Allocation-Notification Session-Linking-Indicator	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped IPFilterRule OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated Enumerated
1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label Flow-Information Packet-Filter-Content Packet-Filter-Identifier Packet-Filter-Information Packet-Filter-Information Packet-Filter-Operation Resource-Allocation-Notification Session-Linking-Indicator PDN-Connection-ID	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated Enumerated OctetString
1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label Flow-Information Packet-Filter-Content Packet-Filter-Identifier Packet-Filter-Information Packet-Filter-Information Packet-Filter-Operation Resource-Allocation-Notification Session-Linking-Indicator PDN-Connection-ID Monitoring-Key	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated Enumerated OctetString OctetString
1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label Flow-Information Packet-Filter-Content Packet-Filter-Identifier Packet-Filter-Information Packet-Filter-Information Resource-Allocation-Notification Session-Linking-Indicator PDN-Connection-ID Monitoring-Key Usage-Monitoring-Information	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated Enumerated OctetString OctetString
1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label Flow-Information Packet-Filter-Content Packet-Filter-Identifier Packet-Filter-Information Packet-Filter-Operation Resource-Allocation-Notification Session-Linking-Indicator PDN-Connection-ID Monitoring-Key Usage-Monitoring-Level	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated Enumerated OctetString OctetString
1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label Flow-Information Packet-Filter-Content Packet-Filter-Identifier Packet-Filter-Information Packet-Filter-Operation Resource-Allocation-Notification Session-Linking-Indicator PDN-Connection-ID Monitoring-Key Usage-Monitoring-Level Usage-Monitoring-Report	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped IPFilterRule OctetString Grouped Enumerated Enumerated Enumerated OctetString OctetString
1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label Flow-Information Packet-Filter-Content Packet-Filter-Identifier Packet-Filter-Information Packet-Filter-Operation Resource-Allocation-Notification Session-Linking-Indicator PDN-Connection-ID Monitoring-Key Usage-Monitoring-Level Usage-Monitoring-Report Usage-Monitoring-Support	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString OctetString Grouped IPFilterRule OctetString Grouped Enumerated
1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label Flow-Information Packet-Filter-Content Packet-Filter-Identifier Packet-Filter-Information Packet-Filter-Operation Resource-Allocation-Notification Session-Linking-Indicator PDN-Connection-ID Monitoring-Key Usage-Monitoring-Level Usage-Monitoring-Report Usage-Monitoring-Support CSG-Information-Reporting	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString Grouped IPFilterRule OctetString Grouped Enumerated
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1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072	Default-EPS-Bearer-QoS AN-GW-Address QoS-Rule-Install QoS-Rule-Remove QoS-Rule-Definition QoS-Rule-Name QoS-Rule-Report Security-Parameter-Index Flow-Label Flow-Information Packet-Filter-Content Packet-Filter-Identifier Packet-Filter-Information Packet-Filter-Operation Resource-Allocation-Notification Session-Linking-Indicator PDN-Connection-ID Monitoring-Key Usage-Monitoring-Information Usage-Monitoring-Report Usage-Monitoring-Support CSG-Information-Reporting Packet-Filter-Usage Charging-Correlation-Indicator	Grouped Address Grouped Grouped Grouped OctetString Grouped OctetString Grouped IPFilterRule OctetString Grouped Enumerated
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1076 Routing-Rule-Definition	Grouped	
1077 Routing-Rule-Identifier	OctetString	
1078 Routing-Filter	Grouped	
1079 Routing-IP-Address	Address	
1080 Flow-Direction	Enumerated	
1081 Routing-Rule-Install	Grouped	
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	
Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212		
1100 Served-User-Identity	Groupe	
1101 VASP-ID	UTF8Str	
1102 VAS-ID	UTF8String	
1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address	Grouped	
1106 Result-Recipient-Address	Grouped	
1107 Sequence-Number	Unsigned32	
1108 Recipient-Address	UTF8String	
		20 440 [46]
1109 Routeing-Address	UTF8String	29.140 [16]
1110 Originating-Interface	Enumerated	
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key	UTF8String	
1115 Billing-Information	UTF8String	
1116 Status	Grouped	
1117 Status-Code	UTF8String	
1118 Status-Text	UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	Offoothing	
	LITEOOtain	
1200 Domain-Name	UTF8String	
1201 Recipient-Address	Grouped	
1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size	Unsigned32	
1207 Additional-Content-Information	Grouped	
	Enumerated	
1208 Addressee-Type		
1209 Priority	Enumerated	
1210 Message-ID	UTF8String	32.299 [5]
1211 Message-Type	Enumerated	JUU [U]
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	
	LLLESString	
1219 Aux-Applic-Info	UTF8String	
1220 Content-Class	Enumerated	

1222 Read-Reply-Report-Requested Enumerated Enumerated Enumerated 1228 Reply-Applic-ID UTF8String 1224 Rile-Repair-Supported Enumerated 1225 MBMS-User-Service-Type Enumerated 1226 MINI-Quota-Threshold Unsigned32 1227 PDP-Address Address Address Address 1228 SGSN-Address Address Address 1228 SGSN-Address Address 1228 POC-Session-Id UTF8String UTF8String 1230 Deferred-Location-Even-Type UTF8String 1231 LCS-Cilent-Lotal Grouped UTF8String 1231 LCS-Cilent-Dalled-By-MS UTF8String 1232 LCS-Cilent-Dalled-By-MS UTF8String 1232 LCS-Cilent-External-ID UTF8String 1234 LCS-Cilent-External-ID UTF8String 1236 LCS-Data-Coding-Scheme UTF8String 1236 LCS-Data-Coding-Scheme UTF8String 1237 LCS-Format-Indicator Enumerated Grouped 1238 LCS-Name-String UTF8String UTF8String 1238 LCS-Requestor-Id-String UTF8String UTF8String 1240 LCS-Requestor-Id-String UTF8String UTF8String 1241 LCS-Cilent-Type Enumerated Grouped 1242 LCS-Requestor-Id-String UTF8String 1243 LCS-Requestor-Id-String UTF8String 1244 LCS-Cilent-Type Enumerated Grouped 1245 LOcation-Estimate-Type Enumerated Grouped 1246 LOcation-String-Type Enumerated Grouped 1246 Reserved -				
1225 MBNS-User-Service-Type	1222	Read-Reply-Report-Requested	Enumerated	
	1223	Reply-Applic-ID	UTF8String	
	1224	File-Repair-Supported	Enumerated	
1226 Unit-Quota-Threshold			Enumerated	
1227 PDF-Address			Unsigned32	
1228 SGSN-Address UTF8String 1230 Deferred-Location-Even-Type UTF8String 1230 Deferred-Location-Even-Type UTF8String 1231 LCS-Client-Ide Grouped Grouped 1231 LCS-Client-Ide Grouped 1231 LCS-Client-External-ID UTF8String 1232 LCS-Client-External-ID UTF8String 1234 LCS-Client-External-ID UTF8String 1235 LCS-Client-External-ID UTF8String 1236 LCS-Data-Coding-Scheme Grouped 1236 LCS-Data-Coding-Scheme UTF8String 1236 LCS-Data-Coding-Scheme UTF8String 1237 LCS-Format-Indicator Enumerated ITF8String 1239 LCS-Requestor-Id-String UTF8String UTF8String 1230 LCS-Requestor-Id-String UTF8String UTF8String 1240 LCS-Requestor-Id-String UTF8String 1241 LCS-Client-Type Enumerated 1242 LCS-Client-Type Enumerated 1243 Location-Estimate-Type Grouped 1244 LCS-Client-Type Grouped 1245 Positioning-Data UTF8String 1246 Reserved UTF8String 1247 PDP-Context-Type Enumerated 1248 MSBox-Storage-Requested Enumerated 1249 Service-Specific-Info Grouped 1245 Service-Specific-Info Grouped 1250 Called-Asserted-Identity UTF8String 1251 Requested-Party-Address UTF8String 1252 PoC-User-Role-IDS UTF8String 1254 PoC-User-Role-IDS UTF8String 1255 Talk-Exchange Grouped 1256 Service-Specific-Info Grouped 1256 Service-Specific-Info Grouped 1257 Service-Specific-Info Grouped 1258 Participant-Group Grouped 1258 Participant-Group Grouped 1259 Participant-Group Grouped 1250 Participant-Group Grouped 1250 Participant-Group Grouped 1271 Ime-Cuota-Mechanism Grouped 1271 Ime-Cuota-Mechanism Grouped 1272 SDP-Answer-Tim				
1239 DeC-Session-Id				
1230 Deferred-Location-Even-Type				
1231 LCS-APN				
1232 LCS-Client-Id				
1233 CS-Cilent-Dialed-By-MS				
1235 LCS-Client-External-ID				
1235 C.SCilent-Mame				
1236 LCS-Data-Coding-Scheme				
1238 LCS-Name-String				
1238 CS-Name-String				
1239 CS-Requestor-Id-String				
1240 LCS-Requestor-Id-String				
1241 LCS-Client-Type				
1242 Location-Estimate CotetString 1243 Location-Type Grouped 1244 Location-Type Grouped 1245 Positioning-Data UTF8String 1246 Reserved				
1243 Location-Estimate-Type Grouped 1244 Location-Type Grouped 1245 Positioning-Data UTF8String 1246 Reserved				
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-IDs UTF8String 1254 PoC-User-Role-IDs UTF8String 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-Conditions Enumerated 1262 PoC-Change-Time Time 1263 Access-Network-Information OctetString Grouped 1266 Envelope Grouped 1266 Envelope Grouped 1266 Envelope Grouped 1266 Envelope Grouped 1267 Finyelope Grouped 1268 Envelope-End-Time Time 1269 Envelope-End-Time Time 1269 Envelope-End-Time Time 1269 Envelope-End-Time Time 1270 Time-Quota-Mechanism Grouped 1271 Time-Quota-Mechanism Grouped 1272 Early-Media-Description Grouped 1273 SDP-Timestamp Time 1276 Ar-Correlation-Information Grouped 1277 SDP-Answer-Timestamp Time 1276 Ar-Correlation-Information Grouped 1277 Grouped 1278 SDP-Gffer-Timestamp Time 1279 Time-Cuota-Mechanism Grouped 1279 SDP-Answer-Timestamp Time 1270 Time-Cuota-Mechanism Grouped 1271 SDP-Answer-Timestamp Time 1270 Time-Cuota-Mechanism Grouped 1271 SDP-Answer-Timestamp Time 1270 Time-Cuota-Mechanism Grouped 1271 SDP-Answer-Timestamp Time 1276 Ar-Correlation-Information Grouped 1277 SDP-Answer-Timestamp Time 1278 Ar-Correlation-Information Grouped 1278 SDP-Gffer-Timestamp Time 1276 Ar-Correlation-Information Grouped 1				
1246 Positioning-Data				
1246 Reserved				
1247 PDP-Context-Type			UTF8String	
1248 MMBox-Storage-Requested Enumerated 1249 Service-Specific-Info Grouped 1250 Called-Asserted-Identity UTF8String 1251 Requested-Party-Address UTF8String 1251 Requested-Party-Address UTF8String 1252 PoC-User-Role Grouped 1253 PoC-User-Role-Info-Units 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-Conditions Enumerated 1262 PoC-Change-Time Time 1263 Access-Network-Information OcteString 1264 Trigger Grouped 1265 Base-Time-Interval Unsigned32 1266 Envelope Grouped 1267 Envelope-End-Time Time 1268 Envelope-Start-Time Time 1269 Envelope-Start-Time Time 1270 Time-Quota-Mechanism Grouped 1271 Time-Quota-Type Enumerated 1272 Early-Media-Description Grouped 1274 SDP-Offer-Timestamp Time 1274 SDP-Offer-Timestamp Time 1276 AF-Correlation-Information Grouped 1278 Offline-Charging Grouped 1279 User-Participating-Type Enumerated 1279				
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1250 Called-Asserted-Identity UTF8String 1251 Requested-Party-Address UTF8String 1252 PoC-User-Role Grouped 1253 PoC-User-Role UTF8String 1254 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-Access-Priority 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-Start-Time Time 1268 Envelope-Start-Time Time 1270 Time-Quota-Mechanism Grouped 1271 Time-Quota-Type Enumerated 1272 Early-Media-Description Grouped 1273 SDP-TimeStamp Time 1274 SDP-Offer-Timestamp Time 1276 AF-Correlation-Information Grouped 1277 PoC-Session-Initiation-type Enumerated 1279 User-Participating-Type Enumerated 1270 UrfsString 1281 IMS-Communication-Service-Identifier UTF8String 1282 Number-Of-Received-Talk-Bursts Unsigned32 1283 Received-Talk-Burst-Time Unsigned32 1284 Received-Talk-Burst-Volume Unsigned32 1285 Received-Talk-Burst-Volume Unsigned32 1286 Received-Talk-Burst-Vo				
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1255 Talk-Burst-Exchange Grouped 1257 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-End-Time Time 1269 Envelope-Reporting Enumerated 1260 Envelope-Start-Time Time 1270 Time-Quota-Mechanism Grouped 1271 Time-Quota-Mechanism Grouped 1272 Early-Media-Description Grouped 1273 SDP-TimeStamps Grouped 1274 SDP-Offer-Timestamp Time <td></td> <td></td> <td></td> <td></td>				
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-End-Time Time 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 Oc-Session-Initiation-type Enumerated 1278 Offline-Charging Grouped 1279 User-Participating-Type Enumerated 1279 User-Participating-Type Enumerated 1279 User-Participating-Type Enumerated 1280 Alternate-Charged-Party-Address UTF8String 1281 IMS-Communication-Service-Identifier UTF8String 1282 Number-Of-Talk-Bursts Unsigned32 1283 Received-Talk-Burst-Volume Unsigned32 1285 Received-Talk-Burst-Volume Unsigned32 1286 Received-Talk-Burst-Volume Unsigned32 1285 Received-Talk-Burst-Volume Unsigned32 1286 Received-Talk-Burst-Volume Unsigned32 1286 Received-Talk-Burst-Volume Unsigned32 1287 Unsigned32 Unsigned32 1288 Received-Talk-Burst-Volume Unsigned32 1288 Received-Talk-Burst-Volume Unsigned32 1288 Received-Talk-Burst-Volume Unsigned32 1289 Received-Talk-Burst-Volume Unsigned32 1280 Received-Talk-Burst-Volume Un				
1257 Service-Specific-Type				
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 Received-Talk-Burst-Time Unsigned32 1285 Received-Talk-Burst-Volume Unsigned32 1286 Received-Talk-Burst-Volume Unsigned32 1285 Received-Talk-Burst-Volume Unsigned32				
1259 Participant-Access-Priority Enumerated 1260 Participant-Group Grouped 1261 PoC-Change-Conditions Enumerated 1262 PoC-Change-Time Time Time 1263 Access-Network-Information OctetString Grouped 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-Mechanism Grouped 1272 Early-Media-Description Grouped 1273 SDP-TimeStamps Grouped 1274 SDP-Offer-Timestamp Time 1276 SDP-Answer-Timestamp Time 1276 AF-Correlation-Information Grouped 1277 PoC-Session-Initiation-type Enumerated 1278 Offline-Charging Grouped 1279 User-Participating-Type Enumerated 1279 User-Participating-Type Enumerated 1279 User-Participating-Type Enumerated 1280 Alternate-Charged-Party-Address UTF8String 1281 IMS-Communication-Service-Identifier UTF8String 1282 Number-Of-Received-Talk-Bursts Unsigned32 1284 Received-Talk-Burst-Fime Unsigned32 1285 Received-Talk-Burst-Fime Unsigned32 1286 Received-Talk-Burst-Fime Unsigned32 1285 Received-Talk-Burst-Filme Unsigned32 1286 Received-Talk-Burst-Filme				
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1268Envelope-ReportingEnumerated1269Envelope-Start-TimeTime1270Time-Quota-MechanismGrouped1271Time-Quota-TypeEnumerated1272Early-Media-DescriptionGrouped1273SDP-TimeStampsGrouped1274SDP-Offer-TimestampTime1275SDP-Answer-TimestampTime1276AF-Correlation-InformationGrouped1277PoC-Session-Initiation-typeEnumerated1278Offline-ChargingGrouped1279User-Participating-TypeEnumerated1280Alternate-Charged-Party-AddressUTF8String1281IMS-Communication-Service-IdentifierUTF8String1282Number-Of-Received-Talk-BurstsUnsigned321283Number-Of-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned32				
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1270Time-Quota-MechanismGrouped1271Time-Quota-TypeEnumerated1272Early-Media-DescriptionGrouped1273SDP-TimeStampsGrouped1274SDP-Offer-TimestampTime1275SDP-Answer-TimestampTime1276AF-Correlation-InformationGrouped1277PoC-Session-Initiation-typeEnumerated1278Offline-ChargingGrouped1279User-Participating-TypeEnumerated1280Alternate-Charged-Party-AddressUTF8String1281IMS-Communication-Service-IdentifierUTF8String1282Number-Of-Received-Talk-BurstsUnsigned321283Number-Of-Talk-BurstsUnsigned321284Received-Talk-Burst-TimeUnsigned321285Received-Talk-Burst-VolumeUnsigned32				
1271 Time-Quota-TypeEnumerated1272 Early-Media-DescriptionGrouped1273 SDP-TimeStampsGrouped1274 SDP-Offer-TimestampTime1275 SDP-Answer-TimestampTime1276 AF-Correlation-InformationGrouped1277 PoC-Session-Initiation-typeEnumerated1278 Offline-ChargingGrouped1279 User-Participating-TypeEnumerated1280 Alternate-Charged-Party-AddressUTF8String1281 IMS-Communication-Service-IdentifierUTF8String1282 Number-Of-Received-Talk-BurstsUnsigned321283 Number-Of-Talk-BurstsUnsigned321284 Received-Talk-Burst-TimeUnsigned321285 Received-Talk-Burst-VolumeUnsigned32				
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1285 Received-Talk-Burst-Volume Unsigned32				
1285 Received-Talk-Burst-Volume Unsigned32	1284	Received-Talk-Burst-Time	Unsigned32	
1286 Talk-Burst-Time Unsigned32				
	1286	Talk-Burst-Time	Unsigned32	

1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1299 are reserved for TS 32.299	UTF8String	
1300 PC5-Radio-Technology	Enumerated	
1301 RAN-End-Time	Time	
1302 RAN-Secondary-RAT-Usage-Report	Grouped	
1303 RAN-Start-Time	Time	
1304 Secondary-RAT-Type	OctetString	
1305 Civic-Address-Information	UTF8String	
1306 WLAN-Operator-Id	Grouped	
1307 WLAN-Operator-Name	UTF8String	
1308 WLAN-PLMN-Id	UTF8String	
1309 API-Content	UTF8String	
1310 API-Direction	Enumerated	
1311 API-Identifier	OctetString	32.299 [5]
1312 API-Invocation-Timestamp	Time	32.299 [3]
1313 API-Result-Code	Unsigned32	
1314 API-Size	Unsigned64	
1315 API-Network-Service-Node	Enumerated	
1316 Exposure-Function-API-Information	Grouped	
1317 SCEF-Address	Address	
1318 TLTRI	Unsigned32	
1319 TTRI	Unsigned32	
1320 3GPP-OC-Specific-Reduction	Grouped	
1321 3GPP-OC-Rating-Group	Unsigned32	
1322 3GPP-OC-Request-Type	Enumerated	
1323 Reserved		
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data	Grouped	
1400 Subscription - Data 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	29.272 [21]
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	
1432 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	
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	
1488 Call-Barring-Info	Grouped	
1489 SGSN-Number	OctetString	
1490 IDR-Flags	Unsigned32	
1491 ICS-Indicator	Enumerated	
1492 IMS-Voice-Over-PS-Sessions-Supported	Enumerated	
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated	
1494 Last-UE-Activity-Time	Time	
1495 EPS-User-State	Grouped	
1496 EPS-Location-Information	Grouped	
1497 MME-User-State	Grouped	
1498 SGSN-User-State	Grouped	
1499 User-State	Enumerated	
1 100 Octor Otato	Litameratea	
1500 Non-3GPP-User-Data	Grouped	29.273 [20]

1501 Non-3CPP-IP-Access
1503 AN-Trusted
1506 Tisce-Info Grouped
1505 Trace-Info
1505 Trace-Info
1506 MIP-FA-RK OctetString Unsigned32 1508 PPR-Flags Unsigned32 1509 WIAN-Identifier Grouped 1510 TWAN-Access-Info Grouped 1511 Access-Authorization-Flags Unsigned32 1513 Reserved
1507 MIP-FA.RK.SP
1508 PRR-Flags
1509 MLAN-Identifier
1510 TWAN-Access-Info 1511 Access-Authorization-Flags Unsigned32 1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved -
1511 Access-Authorization-Flags
1512 TWAN-Default-APN-Context-Id
1513 Reserved
1514 Reserved
1515 Reserved
1516 Full-Network-Name
1518 AAA-Failure-Indication
1518 AAA-Failure-Indication
1518 AAA-Failure-Indication
Transport-Access-Type
1520 DER-Flags
1521 DEA-Flags
1522 RAR-Flags
1522 RAR-Flags
1523 DER-S6b-Flags
1526 HESSID
1525 HESSID
1526 Access-Network-Info
1527 TWAN-Connection-Mode
1527 TWAN-Connection-Mode
1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Flags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-UP-Address UTF8String 1533 TWAG-UP-Address UTF8String 1533 TWAG-UP-Address Unsigned32 1534 SM-Back-Off-Timer Unsigned32 1535 WLCP-Key OctetString 318 3GPP-AAA-Server-Name DiameterIdentity 1536 Origination-Time-Stamp Unsigned64 1537 Maximum-Wait-Time Unsigned32 1538 Emergency-Services Unsigned32 1539 AAR-Flags Unsigned32 1540 IMEI-Check-In-VPLMN-Result Unsigned32 1541 ERP-Authorization Unsigned32 1541 ERP-Authorization Unsigned32 1542 The AVP codes from 1542 to 1599 are reserved for TS 29.273 1600 MME-Location-Information Grouped 1601 SGSN-Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Information OctetString 1605 Routing-Area-Identity OctetString 1606 Geographical-Information OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString 1609 Geodetic-Information OctetString 1611 Age-Of-Location-Information Unsigned32 1611 Age-Of-Location-Information Unsigned32 1611 Age-Of-Location-Information Unsigned32 1611 Ade-Of-Location-Information Unsigned32 1611 Active-APN Grouped
1529 Connectivity-Flags
1530 TWAN-PCO
1531 TWAG-CP-Address
1532 TWAG-UP-Address
1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32 1535 WLCP-Key OctetString 318 3GPP-AAA-Server-Name DiameterIdentity 1536 Origination-Time-Stamp Unsigned64 1537 Maximum-Wait-Time Unsigned32 1538 Emergency-Services Unsigned32 1539 AAR-Flags Unsigned32 1540 IMEI-Check-In-VPLMN-Result Unsigned32 1541 ERP-Authorization Unsigned32 Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Unsigned32 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.234 and is now defined in 3GPP TS 29.273 from Rel-12. Grouped 1600 MME-Location-Information Grouped 1601 SGSN-Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString
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1611 Age-Of-Location-InformationUnsigned321612 Active-APNGrouped
1612 Active-APN Grouped
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1615 UE-SRVCC-Capability Enumerated
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1641 VPLMN-CSG-Subscription-Data	Grouped
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1643 A-MSISDN	OctetString
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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
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1668 WLAN-offloadability-EUTRAN	Unsigned32
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1695 MBSFN-Area Grouped			•
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Data			
Data		Grouped	
Destination-Interface	2001 Data-Coding-Scheme		
2003 Interface-Id	2002 Destination-Interface	Grouped	•
2005 Interface-Port			•
2005 Interface-Text UTF8String 2006 Interface-Type Enumerated 2007 SM-Message-Type Enumerated 2008 Originator-Interface Grouped 2010 Recipient-SCCP-Address Address 2011 Reply-Path-Requested Enumerated 2012 SM-Discharge-Time Time 2013 SM-Protocol-ID OctetString 2015 SM-User-Data-Header OctetString 2016 SMS-Node Enumerated 2017 SMSC-Address Address 2018 Client-Address Address 2019 Number-of-Messages-Sent Unsigned32 2020 Low-Balance-Indication Enumerated 2021 Remaining-Balance Grouped 2022 Refund-Information OctetString 2023 Carrier-Select-Routing-Information UTF8String 2024 Number-Portability-Routing-Information UTF8String 2025 Poc-Event-Type Enumerated 2026 Recipient-Info Grouped 2027 Originator-Received-Address Grouped 2028 Recipient-Received-Address Grouped 2029 Service-Mode Unsigned32 2031 M			•
Description			•
2007 SM-Message-Type		Ŭ	•
2008 Originating SCCP-Address Address Grouped			•
2009 Originator-Interface Grouped Recipient-SCCP-Address Address			•
Recipient-SCCP-Address			
Reply-Path-Requested			
2012 SM-Discharge-Time Time 2013 SM-Protocol-ID OctetString OctetString 2014 SM-Status OctetString 2015 SM-User-Data-Header OctetString 2016 SMS-Node Enumerated 2017 SMSC-Address Address Address 2018 Client-Address Address Address 2018 Client-Address Address Address 2019 Number-of-Messages-Sent Unsigned32 2020 Low-Balance-Indication Enumerated 2021 Remaining-Balance Grouped 32.299 5 2021 Refund-Information UTF8String 2022 Refund-Information UTF8String 2024 Number-Portability-Routing-Information UTF8String 2025 PoC-Event-Type Enumerated 2026 Recipient-Info Grouped 2027 Originator-Received-Address Grouped 2028 Recipient-Received-Address Grouped 2029 SM-Service-Type Enumerated 2030 MMTel-Information Grouped 2031 MMTel-Sservice-Type Unsigned32 2032 Service-Mode Unsigned32 2032 Service-Mode Unsigned32 2033 Subscriber-Role Enumerated 2034 Number-Of-Diversions Unsigned32 2035 Associated-Party-Address Unsigned32 2036 Associated-Party-Address Unsigned32 2037 Change-Condition Integer32 2038 Change-Time Time 2039 Diagnostics Integer32 2040 Service-Data-Container Grouped 2040 Service	2010 Recipient-SCCP-Address	Address	
2013 SM-Protocol-ID	2011 Reply-Path-Requested	Enumerated	
2013 SM-Protocol-ID	2012 SM-Discharge-Time	Time	•
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2018 Client-Address Address 2019 Number-of-Messages-Sent Unsigned32 2020 Low-Balance-Indication Enumerated 32.299 5 2021 Remaining-Balance Grouped Grouped 2022 Refund-Information OctetString 2023 Carrier-Select-Routing-Information UTF8String 2024 Number-Portability-Routing-Information UTF8String 2025 PoC-Event-Type Enumerated 2026 Recipient-Information Grouped 2027 Originator-Received-Address Grouped 2028 Recipient-Received-Address Grouped 2029 SM-Service-Type Enumerated 2030 MMTel-Information Grouped 2031 MMTel-Information Grouped 2031 MMTel-Service-Type Unsigned32 2032 Service-Mode Unsigned32 2033 Subscriber-Role Enumerated 2034 Number-Of-Diversions Unsigned32 2035 Associated-Party-Address UTF8String 2036 SDP-Type Enumerated 2037 Change-Condition Integer32 2038 Change-Time Time 2039 Diagnostics Integer32 2040 Service-Data-Container Grouped			•
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2027 Originator-Received-AddressGrouped2028 Recipient-Received-AddressGrouped2029 SM-Service-TypeEnumerated2030 MMTel-InformationGrouped2031 MMTel-Sservice-TypeUnsigned322032 Service-ModeUnsigned322033 Subscriber-RoleEnumerated2034 Number-Of-DiversionsUnsigned322035 Associated-Party-AddressUTF8String2036 SDP-TypeEnumerated2037 Change-ConditionInteger322038 Change-TimeTime2039 DiagnosticsInteger322040 Service-Data-ContainerGrouped			·
2028 Recipient-Received-Address Grouped 2029 SM-Service-Type Enumerated 2030 MMTel-Information Grouped 2031 MMTel-Sservice-Type Unsigned32 2032 Service-Mode Unsigned32 2033 Subscriber-Role Enumerated 2034 Number-Of-Diversions Unsigned32 2035 Associated-Party-Address UTF8String 2036 SDP-Type Enumerated 2037 Change-Condition Integer32 2038 Change-Time Time 2039 Diagnostics Integer32 2040 Service-Data-Container Grouped			•
2029 SM-Service-Type Enumerated 2030 MMTel-Information Grouped 2031 MMTel-Sservice-Type Unsigned32 2032 Service-Mode Unsigned32 2033 Subscriber-Role Enumerated 2034 Number-Of-Diversions Unsigned32 2035 Associated-Party-Address UTF8String 2036 SDP-Type Enumerated 2037 Change-Condition Integer32 2038 Change-Time Time 2039 Diagnostics Integer32 2040 Service-Data-Container Grouped			•
2030 MMTel-Information Grouped 2031 MMTel-Sservice-Type Unsigned32 2032 Service-Mode Unsigned32 2033 Subscriber-Role Enumerated 2034 Number-Of-Diversions Unsigned32 2035 Associated-Party-Address UTF8String 2036 SDP-Type Enumerated 2037 Change-Condition Integer32 2038 Change-Time Time 2039 Diagnostics Integer32 2040 Service-Data-Container Grouped			•
2031 MMTel-Sservice-Type Unsigned32 2032 Service-Mode Unsigned32 2033 Subscriber-Role Enumerated 2034 Number-Of-Diversions Unsigned32 2035 Associated-Party-Address UTF8String 2036 SDP-Type Enumerated 2037 Change-Condition Integer32 2038 Change-Time Time 2039 Diagnostics Integer32 2040 Service-Data-Container Grouped			:
2032 Service-Mode Unsigned32 2033 Subscriber-Role Enumerated 2034 Number-Of-Diversions Unsigned32 2035 Associated-Party-Address UTF8String 2036 SDP-Type Enumerated 2037 Change-Condition Integer32 2038 Change-Time Time 2039 Diagnostics Integer32 2040 Service-Data-Container Grouped			
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2033 Subscriber-Role Enumerated 2034 Number-Of-Diversions Unsigned32 2035 Associated-Party-Address UTF8String 2036 SDP-Type Enumerated 2037 Change-Condition Integer32 2038 Change-Time Time 2039 Diagnostics Integer32 2040 Service-Data-Container Grouped			
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2035Associated-Party-AddressUTF8String2036SDP-TypeEnumerated2037Change-ConditionInteger322038Change-TimeTime2039DiagnosticsInteger322040Service-Data-ContainerGrouped			•
2036 SDP-Type Enumerated 2037 Change-Condition Integer32 2038 Change-Time Time 2039 Diagnostics Integer32 2040 Service-Data-Container Grouped			
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2038 Change-TimeTime2039 DiagnosticsInteger322040 Service-Data-ContainerGrouped		coomerated	•
2039 DiagnosticsInteger322040 Service-Data-ContainerGrouped	2036 SDP-Type		
2040 Service-Data-Container Grouped	2036 SDP-Type 2037 Change-Condition	Integer32	•
	2036 SDP-Type 2037 Change-Condition 2038 Change-Time	Integer32 Time	
2041 Start-Time Time	2036 SDP-Type 2037 Change-Condition 2038 Change-Time 2039 Diagnostics	Integer32 Time Integer32	
	2036 SDP-Type 2037 Change-Condition 2038 Change-Time 2039 Diagnostics	Integer32 Time Integer32 Grouped	

			1
	Stop-Time	Time	1
	Time-First-Usage	<u>Time</u>	4
	Time-Last-Usage	Time	4
	Time-Usage	Unsigned32	1
	Traffic-Data-Volumes	Grouped	+
	Serving-Node-Type Supplementary-Service	Enumerated Grouped	+
	Participant-Action-Type	Enumerated	+
	PDN-Connection-Charging-ID	Unsigned32	+
	Dynamic-Address-Flag	Enumerated	†
	Accumulated-Cost	Grouped	†
	AoC-Cost-Information	Grouped	†
	AoC-Information	Grouped	†
	AoC-Request-Type	Enumerated	1
	Current-Tariff	Grouped	†
	Next-Tariff	Grouped	†
2058	Rate-Element	Grouped	1
2059	Scale-Factor	Grouped	1
2060	Tariff-Information	Grouped	Ī
	Unit-Cost	Grouped	
	Incremental-Cost	Grouped]
	Local-Sequence-Number	Unsigned32	
	Node-Id	UTF8String	
	SGW-Change	Enumerated	<u> </u>
	Charging-Characteristic-Selection-Mode	Enumerated	4
	SGW-Address	Address	<u> </u>
	Dynamic-Address-Flag-Extension	Enumerated	
	The AVP codes from 2069 to 2099 are reserved for TS 32.299.		1
	reserved	- LITE00:	<u> </u>
	Application-Server-ID	UTF8String	4
	Application-Service-Type	Enumerated Unsigned32	
	Application-Session-ID Delivery-Status	UTF8String	+
	reserved	UTF65thing	+
	reserved	<u> </u>	+
	reserved		†
	reserved		†
	reserved		32.299 [5]
	IM-Information	Grouped	02.200 [0]
	Number-Of-Messages-Successfully-Exploded	Unsigned32	1
	Number-Of-Messages-Successfully-Sent	Unsigned32	†
	Total-Number-Of-Messages-Exploded	Unsigned32	1
	Total-Number-Of-Messages-Sent	Unsigned32	Ī
2115	DCD-Information	Grouped	Ī
2116	Content-ID	UTF8String	
	Content-provider-ID	UTF8String]
	Charge-Reason-Code	Enumerated	
	The AVP codes from 2119 to 2199 are reserved for TS 32.299.		
	Subsession-Decision-Info	Grouped	<u> </u>
	Subsession-Enforcement-Info	Grouped	4
	Subsession-Id	Unsigned32	1
	Subsession-Operation	Enumerated	29.215
	Multiple-BBERF-Action	Enumerated	[22]
	UE-Local-IPv6-Prefix	OctetString	' '
	DRA-Deployment	Enumerated	+
	PCRF-Address	DiameterIdentity	+
	DRA-Binding The AVP codes from 2209 to 2299 are reserved for TS 29.215.	Enumerated	1
			1
	reserved SIP-Request-Timestamp-Fraction	- Uncidendad	+
	SIP-Request-Timestamp-Fraction SIP-Response-Timestamp-Fraction	Unsigned32 Unsigned32	+
	Online-Charging-Flag	Enumerated	32.299 [5]
	CUG-Information	OctetString	_0∠.∠୭୭ [0]
	Real-Time-Tariff-Information	Grouped	†
	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	
2312 AoC-Service-Obligatory-Type	Grouped	
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	-	
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator	Enumerated	
2323 MBMS-Charged-Party	Enumerated	
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.		•
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	رحی
2408 MME-Realm	DiameterIdentity	
2409 SGSN-Name	DiameterIdentity	
2410 SGSN-Realm	DiameterIdentity	
2411 RIA-Flags	Unsigned32	
Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173.	Unsigned32	
2500 SLg-Location-Type	Enumerated	
2501 LCS-EPS-Client-Name	Grouped	
2502 LCS-Requestor-Name	Grouped	
2503 LCS-Requestor-Name	Unsigned32	
2504 LCS-Phoney	Grouped	
2505 Horizontal-Accuracy	Unsigned32	
2506 Vertical-Accuracy	Unsigned32	
2507 Vertical-Requested	Enumerated	
		
2508 Velocity-Requested 2509 Response-Time	Enumerated	
	Enumerated Unsigned32	
2510 Supported-GAD-Shapes		
0544 LCC Codeward		
2511 LCS-Codeword	UTF8String	
2512 LCS-Privacy-Check	UTF8String Enumerated	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator	UTF8String Enumerated Enumerated	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate	UTF8String Enumerated Enumerated Unsigned32	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate	UTF8String Enumerated Enumerated Unsigned32 OctetString	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString	29.172
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString	29.172
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Enumerated	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Unsigned32	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Unsigned32 Grouped	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Unsigned32 Grouped Grouped	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Unsigned32 Grouped Grouped Enumerated	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Unsigned32 Grouped Grouped Enumerated Grouped	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info 2525 GERAN-Positioning-Data	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Unsigned32 Grouped Grouped Enumerated Grouped CoctetString	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info 2525 GERAN-Positioning-Data 2526 GERAN-GANSS-Positioning-Data	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Unsigned32 Grouped Grouped Enumerated Grouped CotetString OctetString OctetString	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info 2525 GERAN-Positioning-Data 2526 GERAN-GANSS-Positioning-Data 2527 UTRAN-Positioning-Info	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Unsigned32 Grouped Grouped Enumerated Grouped OctetString Grouped OctetString	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info 2525 GERAN-Positioning-Data 2527 UTRAN-Positioning-Info 2528 UTRAN-Positioning-Info	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Unsigned32 Grouped Grouped Enumerated Grouped CotetString OctetString OctetString	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info 2525 GERAN-Positioning-Data 2526 GERAN-GANSS-Positioning-Data 2527 UTRAN-Positioning-Info	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Unsigned32 Grouped Grouped Enumerated Grouped OctetString Grouped OctetString	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info 2525 GERAN-Positioning-Data 2527 UTRAN-Positioning-Info 2528 UTRAN-Positioning-Info	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Unsigned32 Grouped Grouped Enumerated Grouped OctetString OctetString	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info 2525 GERAN-Positioning-Data 2527 UTRAN-Positioning-Info 2528 UTRAN-Positioning-Info 2529 UTRAN-Positioning-Data 2529 UTRAN-Positioning-Data	UTF8String Enumerated Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Unsigned32 Grouped Grouped Enumerated Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString OctetString OctetString OctetString OctetString	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info 2525 GERAN-Positioning-Data 2526 GERAN-Positioning-Data 2527 UTRAN-Positioning-Info 2528 UTRAN-Positioning-Data 2529 UTRAN-Positioning-Data 2530 LRR-Flags 2531 LCS-Reference-Number	UTF8String Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Enumerated Unsigned32 Grouped Grouped Enumerated Grouped OctetString OctetString Grouped OctetString OctetString OctetString OctetString Unsigned32	
2512 LCS-Privacy-Check 2513 Accuracy-Fulfilment-Indicator 2514 Age-Of-Location-Estimate 2515 Velocity-Estimate 2516 EUTRAN-Positioning-Data 2517 ECGI 2518 Location-Event 2519 Pseudonym-Indicator 2520 LCS-Service-Type-ID 2521 LCS-Privacy-Check-Non-Session 2522 LCS-Privacy-Check-Session 2523 LCS-QoS-Class 2524 GERAN-Positioning-Info 2525 GERAN-Positioning-Data 2526 GERAN-Positioning-Data 2527 UTRAN-Positioning-Info 2528 UTRAN-Positioning-Data 2529 UTRAN-Positioning-Data 2529 UTRAN-GANSS-Positioning-Data 2530 LRR-Flags	UTF8String Enumerated Unsigned32 OctetString OctetString OctetString Enumerated Enumerated Enumerated Unsigned32 Grouped Grouped Enumerated Grouped OctetString Unsigned32 OctetString	

2534 Area-Definition	Grouped	
2535 Area	Grouped	
2536 Area-Type	Unsigned32	
2537 Area-Identification	Grouped	
2538 Occurrence-Info	Enumerated	
2539 Interval-Time	Unsigned32	
2540 Periodic-LDR-Information	Grouped	
2541 Reporting-Amount	Unsigned32	
2542 Reporting-Interval	Unsigned32	
2543 Reporting-PLMN-List	Grouped	
2544 PLMN-ID-List	Grouped	
2545 PLR-Flags	Unsigned32	
2546 PLA-Flags	Unsigned32	
2547 Deferred-MT-LR-Data	Grouped	-
2548 Termination-Cause	Unsigned32	
2549 LRA-Flags	Unsigned32	
2550 Periodic-Location-Support-Indicator	Enumerated	-
2551 Prioritized-List-Indicator	Enumerated	
2552 ESMLC-Cell-Info	Grouped	\rightarrow
		
2553 Cell-Portion-ID	Unsigned32 OctetString	
2554 1xRTT-RCID	<u>u</u>	
2555 Delayed-Location-Reporting-Data	Grouped	\rightarrow
2556 Civic-Address	UTF8String	_
2557 Barometric-Pressure	Unsigned32	_
2558 UTRAN-Additional-Positioning-Data	OctetString	
2559 Motion-Event-Info	Grouped	
2560 Linear-Distance	Unsigned32	
2561 Maximum-Interval	Unsigned32	
2562 Sampling-Interval	Unsigned32	
2563 Reporting-Duration	Unsigned32	
2564 Reporting-Location-Requirements	Unsigned32	
2565 Additional-Area	Grouped	
Note: The AVP codes from 2566 to 2599 are reserved for TS 29.172.		•
2600 reserved	-	
2601 IMS-Application-Reference-Identifier	UTF8String	
2602 Low-Priority-Indicator	Enumerated	
2603 IP-Realm-Default-Indicator	Enumerated	32.299 [5]
2604 Local-GW-Inserted-Indicator	Enumerated	
2605 Transcoder-Inserted-Indicator	Enumerated	
2606 PDP-Address-Prefix-Length	Unsigned32	
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299.		
2700 Reserved	-	
2701 Transit-IOI-List	UTF8String	
2702 Status-AS-Code	Enumerated	
2703 NNI-Information	Grouped	
2704 NNI-Type	Enumerated	
2705 Neighbour-Node-Address	Address	
2706 Relationship-Mode	Enumerated	
2707 Session-Direction	Enumerated	
2708 From-Address	UTF8String	-
2709 Access-Transfer-Information	Grouped	 32.299 [5]
2710 Access-Transfer-Information	Enumerated	\rightarrow
2711 Related-IMS-Charging-Identifier	UTF8String	
2711 Related-IMS-Charging-Identifier-Node	Address	
2713 IMS-Visited-Network-Identifier	UTF8String	
2714 TWAN-User-Location-Info	Grouped	-
2714 TWAN-OSEI-LOCATION-IIIIO	Grouped	\rightarrow
2716 BSSID	- UTF8String	
2717 TAD-Identifier	Enumerated	
Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299.	Liiuilicialeu	
2800 Reserved		
2801 ADC-Revalidation-Time	 Time	
2802 TDF-Application-Instance-Identifier	OctetString	29.212
2803 HeNB-BBF-FQDN	UTF8String	[19]
2804 HeNB-Local-IP-Address	Address	
	Δηηγορ	

2006 UDP-Source-Port			1
2907 CS-Service-Qos-Request-Identifier OctetString	2805 UE-Local-IP-Address	Address	_
2908 GS-Service-QoS-Request-Operation		Unsigned32	
2809 Multe-Notification	2807 CS-Service-Qos-Request-Identifier	OctetString	
2810 Monitoring-Time	2808 CS-Service-QoS-Request-Operation	Enumerated	
2811 AN-GW-Status	2809 Mute-Notification	Enumerated	7
2811 AN-GW-Status	2810 Monitoring-Time	Time	1
2812 User-Location-Info-Time			7
2813 (SS-Senvice-Resource-Report Time			
2814 (SS-Service-Resource-Faulure-Cause			†
2815 CS-Senvice-Resource-Result-Operation			+
2816 Default-QoS-Information			+
2818 Conditional-APN-Aggregate-Max-Bitrate			4
2818 Conditional-APN-Aggregate-Max-Bitrate			_
2819 RAN-NAS-Release-Cause OctetString			_
2820 Presence-Reporting-Area-Elements-List OctetString 2821 Presence-Reporting-Area-Information Grouped 2823 Presence-Reporting-Area-Information Grouped 2823 Presence-Reporting-Area-Status Unsigned32 2824 NetLoc-Access-Support Unsigned32 2825 Fixed-User-Location-Info Grouped 2826 PCSC-Restoration-Indication Unsigned32 2826 PCSC-Restoration-Indication Unsigned32 2827 IP-CANS-Session-Charging-Scope Enumerated 2828 Monitoring-Flags Unsigned32 2829 Default-Access Enumerated 2828 Monitoring-Flags Unsigned32 2829 Default-Access Enumerated 2830 NBIFOM-Mode Enumerated 2831 NBIFOM-Support Enumerated 2831 NBIFOM-Support Unsigned32 2833 Access-Availability-Change-Reason Unsigned32 2833 Routing-Rule-Failure-Code Unsigned32 2834 Routing-Rule-Faport Grouped 2836 Traffic-Steering-Policy-Identifier-DL OctetString 2837 Traffic-Steering-Policy-Identifier-DL OctetString 2838 Requiser-Type Unsigned32 2838 Requiser-Type Unsigned32 2838 Requiser-Type Unsigned32 2838 Requiser-Type Unsigned32 2839 2840 Conditional-Policy-Information Grouped 2841 Resource-Release-Notification Enumerated 2842 Removal-Ol-Access Enumerated 2843 TCP-Source-Port Unsigned32 2844 Default-Bearer-Indication Enumerated 2845 PRA-Install Grouped 2845 PRA-Install Grouped 2846 PRA-Remove Grouped 2847 3GPP-PS-Data-Off-Status Enumerated 2848 Extended-APN-AMBR-U Unsigned32 2851 Extended-APN-AMBR-U Unsigned32 2851 Extended-APN-AMBR-U Unsigned32 2852 Max-PLR-U Unsigned32 2853 Max-PLR-U Unsigned32 2851 Extended-APN-AMBR-U Unsigned32 2851 Extended-APN-AMBR-U Unsigned32 2852 Max-PLR-U Unsigned32 2853 Max-PLR-U Unsigned32 2853 Max-PLR-U Unsigned32 2854 DE-Status Unsigned32 2855 Max-PLR-U Unsigned32 2856 Product-Potent Product-Potent Product-Potent Product-Potent Product-Potent Product-Pot	2818 Conditional-APN-Aggregate-Max-Bitrate	Grouped	
Presence-Reporting-Area-Information Grouped	2819 RAN-NAS-Release-Cause	OctetString	
Presence-Reporting-Area-Information Grouped	2820 Presence-Reporting-Area-Elements-List	OctetString	1
2822 Presence-Reporting-Area-Information			7
2823 Presence-Reporting-Area-Status			7
			†
2825 Fixed-User-Location-Info			+
PCSCF-Restoration-Indication			4
IP-CAN-Session-Charging-Scope			4
2828 Monitoring-Flags		J	4
Default-Access			
Basil NBIFOM-Mode	2828 Monitoring-Flags	Unsigned32	
Ray Ray		Enumerated	
RAN-Rule-Support	2830 NBIFOM-Mode	Enumerated	1
RAN-Rule-Support	2831 NBIFOM-Support	Enumerated	7
Residence Resi			7
Routing-Rule-Failure-Code			┪
Routing-Rule-Report Grouped			+
2836 Traffic-Steering-Policy-Identifier-DL			+
2837 Traffic-Steering-Policy-Identifier-UL			4
2838 Request-Type		•	_
2839 Execution-Time			_
2840 Conditional-Policy-Information Grouped 2841 Resource-Release-Notification Enumerated 2842 Removal-Of-Access Enumerated 2843 TCP-Source-Port Unsigned32 2844 Default-Bearer-Indication Enumerated 2845 PRA-Install Grouped 2846 PRA-Remove Grouped 2847 3GPP-PS-Data-Off-Status Enumerated 2848 Extended-APN-AMBR-DL Unsigned32 2849 Extended-GBR-DL Unsigned32 2850 Extended-GBR-DL Unsigned32 2851 Extended-GBR-UL Unsigned32 2852 Max-PLR-DL Unsigned32 2853 Max-PLR-UL Unsigned32 2854 UF-Status Unsigned32 2855 UF-Status Unsigned32 2856 UF-Status Unsigned32 2857 Device-Ounter-Identifier Grouped 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status-Report Grouped 2903 Policy-Counter-Status-Report Grouped 2903 Policy-Counter-Information Grouped 2904 SL-Request-Type Enumerated 2905 Pending-Policy-Counter-Information Grouped 2906 Pending-Policy-Counter-Information Grouped 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. 3000 Teserved - 3001 Device-Notification Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped 3000 Teserved Grouped	2838 Request-Type	Unsigned32	
2841 Resource-Release-Notification Enumerated 2842 Removal-Of-Access Enumerated 2843 TCP-Source-Port Unsigned32 2844 Default-Bearer-Indication Enumerated 2845 PRA-Install Grouped 2846 PRA-Remove Grouped 2847 3GPP-PS-Data-Off-Status Enumerated 2848 Extended-APN-AMBR-DL Unsigned32 2849 Extended-APN-AMBR-UL Unsigned32 2850 Extended-GBR-DL Unsigned32 2851 Extended-GBR-DL Unsigned32 2852 Max-PLR-DL Unsigned32 2853 Max-PLR-UL Unsigned32 2854 UE-Status Unsigned32 Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212. Enumerated 2900 reserved - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 2903 Policy-Counter-Status-Report Grouped 2904 St-Request-Type Enumerated [26] 2905 Pending-Policy-Counter-Change-Time Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 t	2839 Execution-Time	Time	
2841 Resource-Release-Notification Enumerated 2842 Removal-Of-Access Enumerated 2843 TCP-Source-Port Unsigned32 2844 Default-Bearer-Indication Enumerated 2845 PRA-Install Grouped 2846 PRA-Remove Grouped 2847 3GPP-PS-Data-Off-Status Enumerated 2848 Extended-APN-AMBR-DL Unsigned32 2849 Extended-APN-AMBR-UL Unsigned32 2850 Extended-GBR-DL Unsigned32 2851 Extended-GBR-DL Unsigned32 2852 Max-PLR-DL Unsigned32 2853 Max-PLR-UL Unsigned32 2854 UE-Status Unsigned32 Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212. Enumerated 2900 reserved - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 2903 Policy-Counter-Status-Report Grouped 2904 St-Request-Type Enumerated [26] 2905 Pending-Policy-Counter-Change-Time Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 t	2840 Conditional-Policy-Information	Grouped	1
Removal-Of-Access			7
2843 TCP-Source-Port			1
Default-Bearer-Indication			7
Reserved Reserved			+
2846 PRA-Remove Grouped 2847 3GPP-PS-Data-Off-Status Enumerated 2848 Extended-APN-AMBR-DL Unsigned32 2849 Extended-GBR-DL Unsigned32 2850 Extended-GBR-DL Unsigned32 2851 Extended-GBR-DL Unsigned32 2852 Max-PLR-DL Unsigned32 2853 Max-PLR-UL Unsigned32 2854 UE-Status Unsigned32 Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212. - 2900 reserved - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 2903 Policy-Counter-Status-Report Grouped 2904 SL-Request-Type Enumerated 2905 Pending-Policy-Counter-Information Grouped 2906 Pending-Policy-Counter-Change-Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. - 3000 Device-Notification Grouped 3001 Device-Notification Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped <			+
2847 3GPP-PS-Data-Off-Status Enumerated			4
2848 Extended-APN-AMBR-DL Unsigned32 2849 Extended-APN-AMBR-UL Unsigned32 2850 Extended-GBR-DL Unsigned32 2851 Extended-GBR-UL Unsigned32 2852 Max-PLR-DL Unsigned32 2853 Max-PLR-UL Unsigned32 2854 UE-Status Unsigned32 Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212. Grouped 2900 reserved - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 2903 Policy-Counter-Status-Report Grouped 2904 SL-Request-Type Enumerated [26] 2905 Pending-Policy-Counter-Information Grouped 29.219 2906 Pending-Policy-Counter-Change-Time Time 2907 2907 SN-Request-Type Unsigned32 Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. - - 3000 Device-Action Grouped 29.368 3001 Device-Action Grouped 29.368 3003 Trigger-Data Grouped 27			_
2849 Extended-APN-AMBR-UL Unsigned32 2850 Extended-GBR-DL Unsigned32 2851 Extended-GBR-UL Unsigned32 2852 Max-PLR-DL Unsigned32 2853 Max-PLR-UL Unsigned32 2854 UE-Status Unsigned32 Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212. - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 2903 Policy-Counter-Status-Report Grouped 2904 SL-Request-Type Enumerated 2905 Pending-Policy-Counter-Information Grouped 2906 Pending-Policy-Counter-Change-Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped			_
2850 Extended-GBR-DL Unsigned32 2851 Extended-GBR-UL Unsigned32 2852 Max-PLR-DL Unsigned32 2853 Max-PLR-UL Unsigned32 2854 UE-Status Unsigned32 Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212. - 2900 reserved - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 2903 Policy-Counter-Status-Report Grouped 2904 SL-Request-Type Enumerated 2905 Pending-Policy-Counter-Information Grouped 2906 Pending-Policy-Counter-Change-Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. Once the Average of		<u> </u>	
2850 Extended-GBR-DL Unsigned32 2851 Extended-GBR-UL Unsigned32 2852 Max-PLR-DL Unsigned32 2853 Max-PLR-UL Unsigned32 2854 UE-Status Unsigned32 Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212. - 2900 reserved - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 2903 Policy-Counter-Status-Report Grouped 2904 SL-Request-Type Enumerated 2905 Pending-Policy-Counter-Information Grouped 2906 Pending-Policy-Counter-Change-Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. Once the Average of	2849 Extended-APN-AMBR-UL	Unsigned32	
2851 Extended-GBR-UL Unsigned32 2852 Max-PLR-DL Unsigned32 2853 Max-PLR-UL Unsigned32 2854 UE-Status Unsigned32 Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212. - 2900 reserved - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 2903 Policy-Counter-Status-Report Grouped 2904 SL-Request-Type Enumerated 2905 Pending-Policy-Counter-Information Grouped 2906 Pending-Policy-Counter-Change-Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. 3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped	2850 Extended-GBR-DL	Unsigned32	
2852 Max-PLR-DL Unsigned32 2853 Max-PLR-UL Unsigned32 2854 UE-Status Unsigned32 Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212. - 2900 reserved - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 2903 Policy-Counter-Status-Report Grouped 29.219 2904 SL-Request-Type Enumerated [26] 2905 Pending-Policy-Counter-Information Grouped Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. 3000 reserved - 3001 Device-Action Grouped 29.368 3002 Device-Notification Grouped [27] 3003 Trigger-Data Grouped [27]			1
2853 Max-PLR-UL Unsigned32 2854 UE-Status Unsigned32 Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212. - 2900 reserved - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 2903 Policy-Counter-Status-Report Grouped 2904 SL-Request-Type Enumerated 2905 Pending-Policy-Counter-Information Grouped 2906 Pending-Policy-Counter-Change-Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. - 3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped			7
Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212. 2900 reserved -			†
Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212. 2900 reserved - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 2903 Policy-Counter-Status-Report Grouped 2904 SL-Request-Type Enumerated 2905 Pending-Policy-Counter-Information Grouped 2906 Pending-Policy-Counter-Change-Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. - 3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped			+
2900 reserved - 2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 2903 Policy-Counter-Status-Report Grouped 2904 SL-Request-Type Enumerated 2905 Pending-Policy-Counter-Information Grouped 2906 Pending-Policy-Counter-Change-Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. - 3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped		Unsigneusz	1
2901 Policy-Counter-Identifier Grouped 2902 Policy-Counter-Status UTF8String 2903 Policy-Counter-Status-Report Grouped 29.219 2904 SL-Request-Type Enumerated [26] 2905 Pending-Policy-Counter-Information Grouped 2906 Pending-Policy-Counter-Change-Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. - 3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped			
2902 Policy-Counter-Status UTF8String 2903 Policy-Counter-Status-Report Grouped 29.219 2904 SL-Request-Type Enumerated [26] 2905 Pending-Policy-Counter-Information Grouped 2906 Pending-Policy-Counter-Change-Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. - 3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped		<u>-</u>	4
2903 Policy-Counter-Status-Report Grouped 29.219 2904 SL-Request-Type Enumerated [26] 2905 Pending-Policy-Counter-Information Grouped 2906 Pending-Policy-Counter-Change-Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. - 3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped			4
2904 SL-Request-Type Enumerated [26] 2905 Pending-Policy-Counter-Information Grouped 2906 Pending-Policy-Counter-Change-Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. - 3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped			
2905 Pending-Policy-Counter-Information Grouped 2906 Pending-Policy-Counter-Change-Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. - 3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped			29.219
2905 Pending-Policy-Counter-Information Grouped 2906 Pending-Policy-Counter-Change-Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. - 3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped			[26]
2906 Pending-Policy-Counter-Change-Time Time 2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. - 3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped			7 .
2907 SN-Request-Type Unsigned32 Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. - 3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped			1
Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219. 3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped			†
3000 reserved - 3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped		Onsignedoz	1
3001 Device-Action Grouped 3002 Device-Notification Grouped 3003 Trigger-Data Grouped			
3002 Device-Notification Grouped [27] 3003 Trigger-Data Grouped		-	4
3002 Device-Notification Grouped [27] 3003 Trigger-Data			29.368
3003 Trigger-Data Grouped 4			
3004 Payload OctetString			_ L [_] ']
,	3004 Payload	OctetString	

3005 Action-Type	Enumerated	
3006 Priority-Indication	Enumerated	
3007 Reference-Number	Unsigned32	
3008 Request-Status	Enumerated	4
3009 Delivery-Outcome 3010 Application-Port-Identifier	Enumerated Unsigned32	+
3011 Old-Reference-Number	Unsigned32	_
3012 Feature-Supported-In-Final-Target	Unsigned32	+
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.	Onsignedaz	
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	4
3111 External-Identifier	UTF8String	+
3112 IP-SM-GW-Realm 3113 AESE-Communication-Pattern	DiameterIdentity	+
3113 AESE-Communication-Pattern 3114 Communication-Pattern-Set	Grouped 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	7
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	29.336
3128 Maximum-Number-of-Reports	Unsigned32	[28]
3129 UE-Reachability-Configuration	Grouped	_
3130 Monitoring-Duration	Time	+
3131 Maximum-Detection-Time 3132 Reachability-Type	Unsigned32 Unsigned32	_
3133 Maximum-Latency	Unsigned32	_
3134 Maximum-Response-Time	Unsigned32	-
3135 Location-Information-Configuration	Grouped	†
3136 MONTE-Location-Type	Unsigned32	†
3137 Accuracy	Unsigned32	7
3138 Association-Type	Unsigned32	7
3139 Roaming-Information	Unsigned32	
3140 Reachability-Information	Unsigned32	
3141 IMEI-Change	Unsigned32	
3142 Monitoring-Event-Config-Status	Grouped	
3143 Supported-Service	Grouped	_
3144 Supported-Monitoring-Event	Unsigned64	_
3145 CIR-Flags	Unsigned32	4
3146 Service-Result	Grouped	4
3147 Service-Result-Code	Unsigned32	+
3148 Reference-ID-Validity-Time	Time	+
3149 Event-handling	Unsigned32	4
3150 NIDD-Authorization-Request 3151 NIDD-Authorization-Response	Grouped Grouped	+
3152 Service-Report	Grouped	+
3153 Node-Type	Unsigned32	+
3154 S6t-HSS-Cause	Unsigned32	†
3155 Enhanced-Coverage-Restriction	Grouped	†
	Sidupou	1

3156 Enhanced-Coverage-Restriction-Data Grouped	lousole I I I D D I I I D I	2	1
3158 Allowed-PLINN-List Grouped 3159 Requested-Validity-Time Time Time 3160 Carnated-Validity-Time Time 3161 NIDD-Authorization-Update Grouped 3162 Loss-Ol-Connectivity-Reason Unsigned32 3163 Group-Monitoring-Event-Report Grouped 3163 Group-Monitoring-Event-Report Grouped 3166 Group-Monitoring-Event-Report Grouped 3169 APN-Validity-Time Grouped 3176 RIR-Flags Unsigned32 3169 APN-Validity-Time Grouped 3177 Monitoring-Event-Report-Status Grouped 3178 APN-Validity-Time Grouped 3178 APN-Validity-Time Grouped 3178 Allows Grouped 3179 MTC-Provider-Info Grouped 3179 MTC-Provider-Info Grouped 3179 MTC-Provider-Info Grouped 3179 MTC-Provider-Info Grouped 3203 MTC-Provider-Diagnostic-T4 Enumerated 29.337 3203 MTC-Erro-Diagnostic Grouped 3203 MTC-Erro-Diagnostic-Info Grouped 3203 MTC-Erro-Diagnostic-Info Grouped 3203 MTC-Erro-Diagnostic-Info Grouped 3203 MTC-Erro-Diagnostic-SM Grouped 3203 MTC-Erro-Diagnostic-SM Grouped	3156 Enhanced-Coverage-Restriction-Data	Grouped	
3159 Requested-Validity-Time			
1616 NIDD-Authorization-Update			
3162 Cluss-Or-Connectivity-Reason Unsigned32			
3163 Group-Reporting-Guard-Timer Unsigned32 3168 Group-Monitoring-Event-Report Grouped 3168 Group-Monitoring-Event-Report Grouped 3168 Group-Monitoring-Event-Report Grouped 3169 Group-Monitoring-Event-Report Grouped 3169 Grouped 3169 Grouped 3169 Grouped 3169 Grouped 3169 Grouped 3170 Suggested-Network-Configuration Grouped 3170 Suggested-Network-Configuration Grouped 3171 Monitoring-Event-Report-Status Grouped 3172 FUNN-ID-Requested Enumerated 3173 Additional-ge-tent-Report-Status Grouped 3173 Additional-ge-tent-Report-Status Grouped 3174 Monitoring-Event-Report-Status Grouped 3174 Mir-Flags Unsigned32 3178 Mir-Flags Unsigned32 3178 Mir-Flags Unsigned32 3178 Mir-Frovider-Info Grouped 3177 NIA-Flags Unsigned32 3178 Mir-Frovider-Info Grouped 3179 Mir-Frovider-Info Grouped 3201 Mir-Frovider-Info Grouped 3201 Mir-Frovider-Info Grouped 3202 Mir-Frovider-Info Unsigned32 3203 Mir-Frovider-Info Unsigned32 3203 Mir-Frov-Diagnostic-T4 Enumerated 29.337 3203 Mir-Frov-Diagnostic-T4 Enumerated 3203 3203 Mir-Frov-Diagnostic-T4 Enumerated 3203 3203 Mir-Frov-Diagnostic-T4 Enumerated 3204 3205 Mir-Frov-Diagnostic-T4 Enumerated 3205 SiM-Diagnostic-Info OctetString 3202 Frovider-Info Grouped 3203 Mir-Frov-Provider-Info Groupe			
3164 CIA-Flags	3162 Loss-Of-Connectivity-Reason	Unsigned32	
3166 Group-Monitoring-Event-Report-Item Grouped	3163 Group-Reporting-Guard-Timer	Unsigned32	
3166 Group-Monitoring-Event-Report-Item Grouped	3164 CIA-Flags	Unsigned32	
3166 Group-Monitoring-Event-Report-Item	3165 Group-Monitoring-Event-Report	Grouped	
1816 Time Time			
1986 Type-Of-External-Identifier			
APN-Validity-Time			
3170 Suggested-Network-Configuration Grouped			\dashv
			
Strict S			
3173 AdditionalIdentifiers Grouped			\dashv
13174 NIR-Flags			
3175 Reporting-Time-Stamp			
13176 Group-User-Identifier Grouped			_
13177 MIA-Flags			
MTC-Provider-Info			_
MTC-Provider-ID			_
Note: The AVP codes from 3180 to 3199 are reserved for TS 29.336.		Grouped	
		UTF8String	
Absent-Subscriber-Diagnostic-T4			
29		Enumerated	
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.	3201 Absent-Subscriber-Diagnostic-T4	Enumerated	29.337
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.		Unsigned32	[29]
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.			- ' '
Scandaria Scan			
SM-RP-UI		OctetString	
3302 TFR-Flags Unsigned32			
SM-Delivery- Failure-Cause Grouped			-
SM-Enumerated Delivery-Failure-Cause			-
3305 SM-Diagnostic-Info OctetString			-
3306 SM-Delivery-Timer			
3307 SM-Delivery-Start-Time Time Same SM-RP-MTI Enumerated Same SM-RP-MTI Enumerated Same SM-RP-SMEA OctetString SM-RP-SMEA OctetString OctetString SM-RP-SMEA Unsigned32 SM-Delivery-Not-Intended Enumerated Enumerated Same Unsigned32 SM-Delivery-Not-Intended Enumerated Unsigned32 SM-S-Absent-User-Subscriber-Diagnostic-SM Unsigned32 Unsigned32 Unsigned32 SMS-GMSC-Absent-User-Subscriber-Diagnostic-SM Unsigned32 SMS-GMS-Absent-User-Subscriber-Diagnostic-SM Unsigned32 SMS-GMS-M-Delivery-Outcome Grouped Grouped Same Grouped Same Grouped Same Grouped Same Grouped Same Grouped Same SGSN-SM-Delivery-Outcome Grouped Same Grouped Same Grouped Same Grouped Same SGSN-SM-Delivery-Outcome Grouped Same Same Grouped Same Same Grouped Same Same Same Grouped Same Same Same Grouped Same Same Same Same Grouped Same Same Same Same Grouped Same			
Sample			-
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 3317 MME-SM-Delivery-Outcome Grouped 3319 SGSN-SM-Delivery-Outcome Grouped 3320 IP-SM-GW-SM-Delivery-Outcome Grouped 3321 SM-Delivery-Cause Enumerated 3322 Absent-User-Diagnostic-SM Unsigned32 3323 RDR-Flags Unsigned32 3324 SMSMI-Correlation-ID Unsigned32 3325 HSS-ID UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3329 Maximum-VE-Availability-Time Time 3330 Maximum-Retransmission-Time Time <td></td> <td></td> <td> </td>			
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 SGN-Absent-User-Subscriber-Diagnostic SM Unsigned32 3316 SM-Delivery-Outcome Grouped 3317 MME-SM-Delivery-Outcome Grouped 3318 MSC-SM-Delivery-Outcome Grouped 3319 SGSN-SM-Delivery-Outcome Grouped 3320 IP-SM-GW-SM-Delivery-Outcome Grouped 3321 SM-Delivery-Cause Enumerated 3322 Absent-User-Diagnostic-SM Unsigned32 3323 RDR-Flags Unsigned32 3324 SMSMI-Correlation-ID Unsigned32 3325 HSS-ID UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3329 Maximum-Retransmission-Time Time 3330 Maximum-Retransmission-Time <t< td=""><td></td><td></td><td>_</td></t<>			_
3312 MWD-Status Unsigned32 3313 MME-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3314 MSC-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3315 SGSN-Absent-User-Subscriber-Diagnostic SM Unsigned32 3316 SM-Delivery-Outcome Grouped 3317 MME-SM-Delivery-Outcome Grouped 3318 MSC-SM-Delivery-Outcome Grouped 3319 SGSN-SM-Delivery-Outcome Grouped 3320 IP-SM-GW-SM-Delivery-Outcome Grouped 3321 SM-Delivery-Cause Enumerated 3322 Absent-User-Diagnostic-SM Unsigned32 3323 RDR-Flags Unsigned32 3324 SMSMI-Correlation-ID Unsigned32 3325 HSS-ID UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3328 OFR-Flags Unsigned32 3329 Maximum-UE-Availability-Time Time 3330 Maximum-Retransmission-Time Time		<u> </u>	_
3313 MME-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3314 MSC-Absent-User-Subscriber-Diagnostic-SM Unsigned32 3315 SGSN-Absent-User-Subscriber-Diagnostic SM Unsigned32 3315 SGSN-Absent-User-Subscriber-Diagnostic SM Unsigned32 3316 SM-Delivery-Outcome Grouped Grouped 3317 MME-SM-Delivery-Outcome Grouped Grouped 3318 MSC-SM-Delivery-Outcome Grouped Grouped 3319 SGSN-SM-Delivery-Outcome Grouped Grouped 3320 IP-SM-GW-SM-Delivery-Outcome Grouped Gro			
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3315 SGSN-Absent-User-Subscriber-Diagnostic SM Unsigned32 3316 SM-Delivery-Outcome Grouped 3317 MME-SM-Delivery-Outcome Grouped 3318 MSC-SM-Delivery-Outcome Grouped 3320 IP-SM-GW-SM-Delivery-Outcome Grouped 3321 SM-Delivery-Cause Enumerated 3322 Absent-User-Diagnostic-SM Unsigned32 3323 RDR-Flags Unsigned32 3324 SMSMI-Correlation-ID UTF8String 3325 HSS-ID UTF8String 3326 Originating-SIP-URI UTF8String 3327 Destination-SIP-URI UTF8String 3329 Maximum-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			
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3436Requested-PLMN-IdentifierUTF8String3437Requestor-PLMN-IdentifierUTF8String3438Role-Of-ProSe-FunctionEnumerated3439Usage-Information-Report-Sequence-NumberInteger323440ProSe-3rd-Party-Application-IDUTF8String3441ProSe-Direct-Communication-Transmission-Data-ContainerGrouped3442ProSe-Direct-Discovery-ModelEnumerated3443ProSe-Event-TypeEnumerated3444ProSe-Function-IP-AddressAddress3445ProSe-FunctionalityEnumerated3446ProSe-Group-IP-Multicast-AddressesAddress3447ProSe-InformationGrouped3448ProSe-Range-ClassEnumerated3449ProSe-Reason-For-CancellationEnumerated3450ProSe-Request-TimestampTime3451ProSe-Role-Of-UEEnumerated			⊣
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3438Role-Of-ProSe-FunctionEnumerated3439Usage-Information-Report-Sequence-NumberInteger323440ProSe-3rd-Party-Application-IDUTF8String3441ProSe-Direct-Communication-Transmission-Data-ContainerGrouped3442ProSe-Direct-Discovery-ModelEnumerated3443ProSe-Event-TypeEnumerated3444ProSe-Function-IP-AddressAddress3445ProSe-FunctionalityEnumerated3466ProSe-Group-IP-Multicast-AddressesAddress3447ProSe-InformationGrouped3448ProSe-Range-ClassEnumerated3449ProSe-Reason-For-CancellationEnumerated3450ProSe-Request-TimestampTime3451ProSe-Role-Of-UEEnumerated			⊣
3439Usage-Information-Report-Sequence-NumberInteger323440ProSe-3rd-Party-Application-IDUTF8String3441ProSe-Direct-Communication-Transmission-Data-ContainerGrouped3442ProSe-Direct-Discovery-ModelEnumerated3443ProSe-Event-TypeEnumerated3444ProSe-Function-IP-AddressAddress3445ProSe-FunctionalityEnumerated3466ProSe-Group-IP-Multicast-AddressesAddress3447ProSe-InformationGrouped3448ProSe-Range-ClassEnumerated3449ProSe-Reason-For-CancellationEnumerated3450ProSe-Request-TimestampTime3451ProSe-Role-Of-UEEnumerated		ŭ	⊣
3440ProSe-3rd-Party-Application-IDUTF8String3441ProSe-Direct-Communication-Transmission-Data-ContainerGrouped3442ProSe-Direct-Discovery-ModelEnumerated3443ProSe-Event-TypeEnumerated3444ProSe-Function-IP-AddressAddress3445ProSe-FunctionalityEnumerated3446ProSe-Group-IP-Multicast-AddressesAddress3447ProSe-InformationGrouped3448ProSe-Range-ClassEnumerated3449ProSe-Reason-For-CancellationEnumerated3450ProSe-Request-TimestampTime3451ProSe-Role-Of-UEEnumerated			⊣
3441ProSe-Direct-Communication-Transmission-Data-ContainerGrouped3442ProSe-Direct-Discovery-ModelEnumerated3443ProSe-Event-TypeEnumerated3444ProSe-Function-IP-AddressAddress3445ProSe-FunctionalityEnumerated3446ProSe-Group-IP-Multicast-AddressesAddress3447ProSe-InformationGrouped3448ProSe-Range-ClassEnumerated3449ProSe-Reason-For-CancellationEnumerated3450ProSe-Request-TimestampTime3451ProSe-Role-Of-UEEnumerated			
3442ProSe-Direct-Discovery-ModelEnumerated3443ProSe-Event-TypeEnumerated3444ProSe-Function-IP-AddressAddress3445ProSe-FunctionalityEnumerated3446ProSe-Group-IP-Multicast-AddressesAddress3447ProSe-InformationGrouped3448ProSe-Range-ClassEnumerated3449ProSe-Reason-For-CancellationEnumerated3450ProSe-Request-TimestampTime3451ProSe-Role-Of-UEEnumerated			┥
3443ProSe-Event-TypeEnumerated3444ProSe-Function-IP-AddressAddress3445ProSe-FunctionalityEnumerated3446ProSe-Group-IP-Multicast-AddressesAddress3447ProSe-InformationGrouped3448ProSe-Range-ClassEnumerated3449ProSe-Reason-For-CancellationEnumerated3450ProSe-Request-TimestampTime3451ProSe-Role-Of-UEEnumerated			→ !
3444ProSe-Function-IP-AddressAddress3445ProSe-FunctionalityEnumerated3446ProSe-Group-IP-Multicast-AddressesAddress3447ProSe-InformationGrouped3448ProSe-Range-ClassEnumerated3449ProSe-Reason-For-CancellationEnumerated3450ProSe-Request-TimestampTime3451ProSe-Role-Of-UEEnumerated			⊣ ∣
3445ProSe-FunctionalityEnumerated3446ProSe-Group-IP-Multicast-AddressesAddress3447ProSe-InformationGrouped3448ProSe-Range-ClassEnumerated3449ProSe-Reason-For-CancellationEnumerated3450ProSe-Request-TimestampTime3451ProSe-Role-Of-UEEnumerated			⊣ ∣
3446ProSe-Group-IP-Multicast-AddressesAddress3447ProSe-InformationGrouped3448ProSe-Range-ClassEnumerated3449ProSe-Reason-For-CancellationEnumerated3450ProSe-Request-TimestampTime3451ProSe-Role-Of-UEEnumerated			→ !
3447ProSe-InformationGrouped3448ProSe-Range-ClassEnumerated3449ProSe-Reason-For-CancellationEnumerated3450ProSe-Request-TimestampTime3451ProSe-Role-Of-UEEnumerated			4
3448ProSe-Range-ClassEnumerated3449ProSe-Reason-For-CancellationEnumerated3450ProSe-Request-TimestampTime3451ProSe-Role-Of-UEEnumerated			-
3449ProSe-Reason-For-CancellationEnumerated3450ProSe-Request-TimestampTime3451ProSe-Role-Of-UEEnumerated			4
3450ProSe-Request-TimestampTime3451ProSe-Role-Of-UEEnumerated			⊣ ∣
3451 ProSe-Role-Of-UE Enumerated			<u> </u>
			⊣
3452 ProSe-Source-IP-Address Address			_
	3452 ProSe-Source-IP-Address	Address	

		1
3453 ProSe-UE-ID	OctetString	
3454 Proximity-Alert-Indication	Enumerated	_
3455 Proximity-Alert-Timestamp	Time	
3456 Proximity-Cancellation-Timestamp 3457 ProSe-Function-PLMN-Identifier	Time	_
3458 Application-Specific-Data	UTF8String OctetString	
3459 Coverage-Info	Grouped	
3460 Location-Info	Grouped	
3461 ProSe-Direct-Communication-Reception-Data-Container	Grouped	-
3462 Radio-Frequency	OctetString	
3463 Radio-Parameter-Set-Info	Grouped	
3464 Radio-Parameter-Set-Values	OctetString	
3465 Radio-Resources-Indicator	Integer32	
3466 Time-First-Reception	Time	
3467 Time-First-Transmission	Time	
3468 Transmitter-Info	Grouped	
Note: The AVP codes from 3469 to 3499 are reserved for TS 33	2.299.	
3500 BMSC-Address	Address	
3501 BMSC-Port	Unsigned32	
3502 MBMS-Bearer-Event	Unsigned32	
3503 MBMS-Bearer-Event-Notification	Grouped	
3504 MBMS-Bearer-Request	Grouped	
3505 MBMS-Bearer-Response	Grouped	
3506 MBMS-Bearer-Result	Unsigned32	_
3507 MBMS-Start-Time	Time	_
3508 Radio-Frequency	Unsigned32	_
3509 TMGI-Allocation-Request	Grouped	_
3510 TMGI-Allocation-Response	Grouped	
3511 TMGI-Allocation-Result	Unsigned32	_
3512 TMGI-Deallocation-Request 3513 TMGI-Deallocation-Response	Grouped Grouped	
3514 TMGI-Deallocation-Result	Unsigned32	
3515 TMGI-Expiry	Grouped	\rightarrow
3516 TMGI-Expiry	Unsigned32	29.468
3517 MB2U-Security	Unsigned32	 [31]
3518 Local-M1-Information	Grouped	-
3519 Local-MB2-U-Information	Grouped	
3520 MBMS-eNB-IP-Multicast-Address	Address	
3521 MBMS-eNB-IPv6-Multicast-Address	Address	
3522 MBMS-GW-SSM-IP-Address	Address	
3523 MBMS-GW-SSM-IPv6-Address	Address	
3524 Common-Tunnel-Endpoint-Identifier	OctetString	
3525 FEC-Request	OctetString	
3526 ROHC-Request	Grouped	
3527 ROHC-Full-Header-Periodicity	Float32	
3528 ROHC-Profile	Unsigned32	
3529 Userplane-Protocol-Result	Grouped	
3530 ROHC-Result	Unsigned32	
3531 FEC-Result	Unsigned32	
3532 ROHC-Max-CID	Unsigned32	
Note: The AVP codes from 3533 to 3599 are reserved for TS 29		
3600 Origin-App-Layer-User-Id	UTF8String	
3601 Target-App-Layer-User-Id	UTF8String	_
3602 ProSe-Function-ID	OctetString	
3603 ProSe-Request-Type	Unsigned32	
3604 PDUID	OctetString	
3605 Application-Data 3606 Allowed-Suffixes-Number	UTF8String Unsigned32	29.343
3607 Monitor-Target	Unsigned32 Grouped	[32]
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		1
INOTE. THE AVE CODES HOTH 3013 to 3099 are reserved for 15 2	1.3 4 3.	

			1
	ProSe-Subscription-Data	Grouped	
	ProSe-Permission	Unsigned32	4
	ProSe-Allowed-PLMN	Grouped	00.044
	ProSe-Direct-Allowed	Unsigned32	29.344
	UPR-Flags PNR-Flags	Unsigned32 Unsigned32	[33]
	ProSe-Initial-Location-Information	Grouped	<u> </u>
	Authorized-Discovery-Range	Unsigned32	†
	The AVP codes from 3709 to 3799 are reserved for TS 29.344.	Unaighted 32	1
	Reserved		
	App-Layer-User-Id	UTF8String	†
	Assistance-info	Grouped	†
	Assistance-Info-Validity-Timer	Unsigned32	†
	Discovery-Type	Unsigned32	
	Filter-Id	OctetString	
	MAC-Address	UTF8String	
	Match-Report	Grouped	
	Operating-Channel	Unsigned32	
	P2P-Features	Unsigned32	<u> </u>
	ProSe-App-Code	UTF8String	<u> </u>
	ProSe-App-Id	UTF8String	4
	ProSe-App-Mask	UTF8String	1
	ProSe-Discovery-Filter	Grouped Unsigned32	1
	PRR-Flags ProSe-Validity-Timer		
	Requesting-EPUID	Unsigned32 UTF8String	4
	Targeted-EPUID	UTF8String	+
	Time-Window	Unsigned32	<u> </u>
	WiFi-P2P-Assistance-Info	Grouped	1
	WLAN-Assistance-Info	Grouped	†
	WLAN-Link-Layer-Id	OctetString	
	WLAN-Link-Layer-Id-List	Grouped	1
	Location-Update-Trigger	Grouped	
	Location-Update-Event-Type	Unsigned32	
	Change-Of-Area-Type	Grouped	1
3826	Location-Update-Event-Trigger	Unsigned32	1
	Report-Cardinality	Enumerated	29.345
	Minimum-Interval-Time	Unsigned32	[34]
	Periodic-Location-Type	Grouped	
3830	Location-Report-Interval-Time	Unsigned32	
	Total-Number-Of-Reports	Unsigned32	
	Validity-Time-Announce	Unsigned32	
	Validity-Time-Monitor	Unsigned32	4
	Validity-Time-Communication	Unsigned32	<u> </u>
3835	ProSe-App-Code-Info	Grouped OctetString	+
	UTC-based-Counter	Unsigned32	+
	ProSe-Match-Refresh-Timer	Unsigned32	<u> </u>
	ProSe-Metadata-Index-Mask	OctetString	+
	App-Identifier	Grouped	†
	OS-ID	OctetString	†
	OS-App-ID	UTF8String	†
	Requesting-RPAUID	UTF8String	†
	Target-RPAUID	UTF8String	1
	Target-PDUID	OctetString	1
3846	ProSe-Restricted-Code	OctetString	
	ProSe-Restricted-Code-Suffix-Range	OctetString	<u> </u>
	Beginning-Suffix	OctetString	
	Ending-Suffix	OctetString	
	Discovery-Entry-ID	Unsigned32	<u> </u>
	Match-Timestamp	Time	1
	PMR-Flags	Unsigned32	_
	ProSe-Application-Metadata	UTF8String	1
	Discovery-Auth-Request	Grouped	1
3855	Discovery-Auth-Response	Grouped	

3856 Match-RequestGrouped3857 Match-Report-InfoGrouped	_
3858 Banned-RPAUID UTF8String	
3859 Banned-PDUID OctetString	
3860 Code-Receiving-Security-Material Grouped	
3861 Code-Sending-Security-Material Grouped	
3862 DUSK OctetString	\exists
3863 DUIK OctetString	7
3864 DUCK OctetString	7
3865 MIC-Check-indicator Unsigned32	
3866 Encrypted-Bitmask OctetString	7
3867 ProSe-App-Code-Suffix-Range OctetString	-
3868 PC5-tech OctetString	\dashv
Note: The AVP codes from 3869 to 3899 are reserved for TS 29.345.	
3900 Reserved	
	-
3901 Enhanced-Diagnostics Grouped	-
3902 Inter-UE-Transfer Enumerated	_
3903 TWAG-Address Address	
3904 Announcement-Information Grouped	
3905 Announcement-Identifier Unsigned32	
3906 Announcement-Order Unsigned32	
3907 Variable-Part Grouped	
3908 Variable-Part-Order Unsigned32	
3909 Variable-Part-Type Unsigned32	7
3910 Variable-Part-Value UTF8String	\exists
3911 Time-Indicator Unsigned32	7
3912 Quota-Indicator Enumerated	\dashv
3913 Play-Alternative Enumerated	-
3914 Language UTF8String	\dashv
	\dashv
3915 Privacy-Indicator Enumerated	-
3916 Called-Identity UTF8String	\rightarrow
3917 Called-Identity-Change Grouped	_
3918 UWAN-User-Location-Info Grouped	_
3919 Monitoring-Event-Configuration-Activity Integer32	
3920 Monitoring-Event-Report-Data Grouped	
3921 Monitoring-Event-Information Grouped	32.299 [5]
3922 Monitoring-Event-Functionality Integer32	
3923 Monitoring-Event-Report-Number Unsigned32	
3924 Cellular-Network-Information OctetString	
3925 Related-Change-Condition-Information Grouped	7
3926 Related-Trigger Grouped	7
3927 CPDT-Information Grouped	7
3928 NIDD-Submission Grouped	\dashv
3929 Serving-Node-Identity DiameterIdentity	-
3930 CP-CloT-EPS-Optimisation-Indicator Enumerated	\dashv
	\rightarrow
3931 SGi-PtP-Tunnelling-Method Enumerated	\dashv
3932 UNI-PDU-CP-Only-Flag Enumerated	\dashv
3933 APN-Rate-Control Grouped	\dashv
3934 APN-Rate-Control-Downlink Grouped	_
3935 APN-Rate-Control-Uplink Grouped	\dashv
3936 Additional-Exception-Reports Enumerated	
3937 Rate-Control-Max-Message-Size Unsigned32	
3938 Rate-Control-Max-Rate Unsigned32	
3939 Rate-Control-Time-Unit Unsigned32	
3940 SCS-AS-Address Grouped	
3941 SCS-Address Address	
3942 SCS-Realm DiameterIdentity	7
Note: The AVP codes from 3943 to 3999 are reserved for TS 32.299.	
4000 Aggregated-Congestion-Info Grouped	
4001 Aggregated-RUCI-Report Grouped	7
4002 Congestion-Level-Definition Grouped	\dashv
	29.217
4003 Congestion-Level-Range Unsigned32	[35]
4004 Congestion-Level-Set-Id Unsigned32	→ ` ´
4005 Congestion-Level-Value Unsigned32	
4006 Congestion-Location-Id Grouped	

4007 Conditional	Postriction	Unaignod22	
4007 Conditional	Restriction	Unsigned32 OctetString	
4009 IMSI-List		OctetString	
4010 RCAF-Id		DiameterIdentity	
4011 Reporting-F	Restriction	Unsigned32	
4012 RUCI-Actio		Unsigned32	
4013 Extended-e	NodeB-ID	OctetString	
Note: The AVP co	des from 4014 to 4099 are reserved for TS 29.217.		
	ngestion-Area-Report	Grouped	29.153
4102 Ns-Reques		Unsigned32	[37]
	des from 4103 to 4199 are reserved for TS 29.153.		
4201 Network-Ar		OctetString	
4202 Reference-		OctetString	
4203 Transfer-Re		Unsigned32	
4204 Time-Windo		Grouped Time	
4206 Transfer-St		Time	
4207 Transfer-Po		Grouped	
4208 Transfer-Po		Unsigned32	29.154
4209 Number-Of		Unsigned32	[38]
4210 Access-Net		Grouped	[]
4211 Event-Conf		Grouped	
4212 Event-Conf		Unsigned32	
4213 Event-Conf	guration-Status	Grouped	
4214 Event-Repo		Unsigned32	
4215 Event-Repo		Grouped	
	CEF-Reference-ID	Unsigned64	
	des from 4217 to 4299 are reserved for TS 29.154.		
	tion-Failure-Information	Grouped	
4301 Cause-Type		Unsigned32	
4302 S1AP-Caus		Unsigned32	
4303 RANAP-Ca 4304 GMM-Caus		Unsigned32 Unsigned32	
4304 GMM-Cause	e	Unsigned32 Unsigned32	
	UE-Per-Location-Configuration	Grouped	
	UE-Per-Location-Report	Grouped	
4308 UE-Count	oc-i el-cocation-report	Unsigned32	
4309 BSSGP-Ca	use	Unsigned32	
4310 Serving-PL		Grouped	
4311 Uplink-Rate		Unsigned32	00.400
4312 Downlink-R		Unsigned32	29.128
4313 Extended-F		OctetString	[36]
4314 Connection		Unsigned32	
4315 Non-IP-Dat		OctetString	
4316 SCEF-Wait	·Time	Time	
4317 CMR-Flags		Unsigned32	
4318 RRC-Cause		Grouped	
4319 Counter-Va		Unsigned32	
4320 RRC-Count	er- i imestamp	Time	
4321 TDA-Flags	Indication	Unsigned32 Grouped	
4322 Idle-Status- 4323 Idle-Status-		Grouped Time	
4324 Active-Time		Unsigned32	
	des from 4325 to 4399 are reserved for TS 29.128.	Onsignedoz.	L
	er-IP-CAN-Session-Indicator	Enumerated	
	work-Info-Change	Enumerated	
	UE-HPLMN-Identifier	UTF8String	
	·UE-VPLMN-Identifier	UTF8String	
	UE-HPLMN-Identifier	UTF8String	
	UE-VPLMN-Identifier	UTF8String	32.299 [5]
4406 3GPP-PS-E		Enumerated	
4407 Unused-Qu		Unsigned32	
4408 Announcing		UTF8String	
	o-Network-Relay-UE-ID	OctetString	
4410 ProSe-Targ	et-Layer-2-ID	OctetString	

4411 Relay-IP-address	Address	
4412 Target-IP-Address	Address	
4413 FE-Identifier-List	UTF8String	
Note: The AVP codes from 4414 to 4499 are reserved for TS 32.299		
4500 MCPTT-ID	UTF8String	
4501 Data-Identification	Grouped	
4502 Data-Identification-Prefix	Unsigned32	
4503 Data-Identification-Flags	Unsigned64	
4504 DPR-Flags	Unsigned32	
4505 DPA-Flags	Unsigned32	
4506 DUR-Flags	Unsigned32	29.283
4507 DUA-Flags	Unsigned32	
4508 NDR-Flags	Unsigned32	[39]
4509 NDA-Flags	Unsigned32	
4510 User-Data-Id	Unsigned32	
4511 MC-Service-User-Profile-Data	Grouped	
4512 Sequence-Number	Unsigned32	
4513 MCVideo-ID	UTF8String	
4514 MC-Data-ID	UTF8String	
Note: The AVP codes from 4515 to 4599 are reserved for TS 29.283.		
4600 V2X-PC5-Allowed-PLMN	Grouped	29.388
4601 V2X-Update-Flags	Unsigned32	[40]
4602 V2X-Notify-Flags	Unsigned32	[40]
Note: The AVP codes from 4603 to 4799 are reserved for TS 29.388.		
4700 V2X-Authorization-Data	Grouped	20.200
4701 V2X-Permission-in-VPLMN	Unsigned32	29.389
4702 V2X-Application-Server	Grouped	[41]
Note: The AVP codes from 4703 to 4799 are reserved for TS and TS	29.389.	•
		29.561
		[42]
Note: The AVP codes from 4800 to 4999 are reserved for TS and TS	29.561.	

8 Experimental result codes

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

8.1 3GPP specific result codes

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

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

8.1.1 Informational

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

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

8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

Experimental	Result text	Specified in the TS	
Result Code			
2001	DIAMETER_FIRST_REGISTRATION		
2002	DIAMETER_SUBSEQUENT_REGISTRATION		
2003	DIAMETER_UNREGISTERED_SERVICE	29.229 [2]	
2004	DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED		
2005	Deprecated value		
Note: The Experime	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.		
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]	
Note: The Experime	ental Result Codes from 2022 to 2040 are reserved for the TS 29.061		
		29.109 [7]	
Note: The Experime	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.		
2421	DIAMETER_QOS_FLOW_DELETION_INDICATION	29.561 [42]	
Note: The Experime	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 text		Specified in the TS
Result Code			
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	9.329.	
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	9.061.	
4141	DIAMETER_PCC_BEARER_EVENT		
4142	DIAMETER_BEARER_EVENT		
4143	DIAMETER_AN_GW_FAILED		29.212 [19]
4144	DIAMETER_PENDING_TRANSACTION		
4145	DIAMETER_UE_STATUS_SUSPEND		
Note: The Experime	ntal Result Codes from 4146 to 4160 are reserved for the TS 29	9.212	
			32.299 [5]
	ntal Result Codes from 4161 to 4180 are reserved for the TS 3	2.299.	
	R_AUTHENTICATION_DATA_UNAVAILABLE		29.272 [21]
	R_ERROR_CAMEL_SUBSCRIPTION_PRESENT		23.272 [21]
	t Codes from 4182 to 4200 are reserved for the TS 29.272.		
	R_ERROR_ABSENT_USER		29.173 [25]
	t Codes from 4202 to 4220 are reserved for the TS 29.173.		
	ER_ERROR_UNREACHABLE_USER		
	ER_ERROR_SUSPENDED_USER		
	ER_ERROR_DETACHED_USER	•	29.172 [24]
	ER_ERROR_POSITIONING_DENIED	•	20.172 [2 1]
_	ER_ERROR_POSITIONING_FAILED		
	ER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT		
Note: The Experimental Resu	t Codes from 4227 to 4240 are reserved for the TS 29.172.		
	ER_ERROR_NO_AVAILABLE_POLICY_COUNTERS		29.219 [26]
	t Codes from 4242 to 4260 are reserved for the TS 29.219.		
,	TED_SERVICE_TEMPORARILY_NOT_AUTHORIZED		29.214 [18]
Note: The Experimental Resu	t 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_UNSUPPORTED	
Note: The Expe	rimental Result Codes from 5013 to 5020 are reserved for the TS	S 29.229.
		32.299 [5]
Note: The Expe	rimental Result Codes from 5021 to 5040 are reserved for the TS	32.299.
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC	29.234 [6]
	RIPTION	20.20 . [0]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	2 22 22 4
	rimental Result Codes from 5046 to 5060 are reserved for the TS	5 29.234.
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	
5068	TEMPORARY_NETWORK_FAILURE	000 TO 00 044
•	rimental Result Codes from 5069 to 5080 are reserved for TS 29	1.209, 15 29.211
	TS 29.214.	
5100 5101	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED DIAMETER ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	29.329 [4]
5105	DIAMETER_ERROR_TRANSPARENT_DATA	
E100	OUT_OF_SYNC DIAMETER ERROR SUBS DATA ABSENT	
5106 5107		
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	2 20 220
inote. The Expe	erimental Result Codes from 5109 to 5119 are reserved for the TS	D 29.329.

5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	
E	5123	DIAMETER_ERROR_SERVICE_AREA

Note: The Expe	erimental Result Codes from 5124 to 5139 are reserved for the TS	S 29.061.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	
	D	29.212 [19]
5145	DIAMETER_QOS_RULE_EVENT	
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
5148	DIAMETER_ADC_RULE_EVENT	
5149	DIAMETER_ERROR_NBIFOM_NOT_AUTHORIZED	
Note: The Expe	Note: The Experimental Result Codes from 5150 to 5159 are reserved for the TS	
5401	DIAMETER_ERROR_IMPI_UNKNOWN	29.109 [7
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7

5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID					
Note: The Exp	Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109.					
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION					
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]				
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN					
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE					
Note: The Exp	perimental Result Codes from 5424 to 5449 are reserved for the TS	\$ 29.272.				
5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI					
	ON					
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	20 272 [20]				
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	29.273 [20]				
5453	DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST					
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST					
Note: The Exp	perimental Result Codes from 5455 to 5469 are reserved for the TS	S 29.273.				
•	FAZO DIAMETED EDDOD CURCECCION	FAZO DIAMETED EDDOD CUDOCCCIONI				

	TIMED_OUT_REQUEST	
ital Result Codes t	from 5455 to 5469 are reserved for the TS 29.273.	
5470	DIAMETER_ERROR_SUBSESSION	
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHMEN	29.215 [22]
	T	
Note: The Expe	erimental Result Codes from 5472 to 5489 are reserved for the TS	S 29.215.
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET	00 470 [05]
	WORK	29.173 [25]
Note: The Expe	erimental Result Codes from 5491 to 5509 are reserved for the TS	S 29.173.
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI	
	TY	
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
5512	DIAMETER_ERROR_REQUESTED_RANGE_IS_NOT	
	ALLOWED	20 226 [20]
5513	DIAMETER_ERROR_CONFIGURATION_EVENT_STORAGE	29.336 [28]
	_NOT_SUCCESSFUL	
5514	DIAMETER_ERROR_CONFIGURATION_EVENT_NON_EXIS	
	TANT	
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	
Note: The Expe	erimental Result Codes from 5516 to 5529 are reserved for the TS	S 29.336.
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	
5531	DIAMETER_ERROR_SC_CONGESTION	
5532	DIAMETER_ERROR_SM_PROTOCOL	00 007 [00]
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	29.337 [29]
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5535	DIAMETER ERROR ORIGINAL MESSAGE NOT PENDING	
Note: The Expe	erimental Result Codes from 5536 to 5549 are reserved for the TS	S 29.337.
5550	DIAMETER_ERROR_ABSENT_USER	
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5553	DIAMETER_ERROR_ILLEGAL_USER	
5554	DIAMETER ERROR ILLEGAL EQUIPMENT	29.338 [30]
5555	DIAMETER_ERROR_SM_DELIVERY_FAILURE	_0.000 [00]
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	S 20 338
5570	DIAMETER ERROR UNKNOWN POLICY COUNTERS	29.219 [26]
	Experimental Result Codes from 5571 to 5589 are reserved for t	
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	10 10 20.210.
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	
5592	DIAMETER_ERROR_PFID_UNKNOWN	
5593	DIAMETER_ERROR_APP_REGISTER_REJECT	
5594	DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE	
3334	D	
5595	DIAMETER ERROR MAP REQUEST REJECT	
5596	DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN	29.343 [32]
5597	DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_S	20.070 [02]
5591	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	

	rimental Result Codes from 5603 to 5609 are reserved for the TS	5 29.343.				
5610	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION					
5611	DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]				
5612	DIAMETER_ERROR_UE_LOCATION_UNKNOWN					
	rimental Result Codes from 5613 to 5629 are reserved for the TS	3 29.344.				
5630	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT					
	ER					
5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P					
	LMN					
5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE					
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED					
5634	DIAMETER_ERROR_PROXIMITY_REJECTED					
5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST DIAMETER ERROR UNAUTHORIZED SERVICE IN THIS	29.345 [34]				
5636	29.040 [04]					
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 TS	3 29.345.				
5650	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV					
5651	DIAMETER ERROR INVALID EPS BEARER					
5652	DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA BLE	29.128 [36]				
5653	DIAMETER_ERROR_USER_TEMPORARILY_UNREACHABL					
Note: The Expe	erimental Result Codes from 5654 to 5669 are reserved for the TS	3 29.128.				
5670	DIAMETER_ERROR_UNKNKOWN_DATA					
5671	DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	29.283 [39]				
	erimental Result Codes from 5672 to 5689 are reserved for the TS	3 29.128.				
5690	DIAMETER ERROR UNKNOWN V2X SUBSCRIPTION					
5691	DIAMETER ERROR V2X NOT ALLOWED	29.388 [40]				
Note: The Expe	erimental Result Codes from 5692 to 5709 are reserved for the TS	3 29.388.				

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

2004-09 (2004-09 (2004-09 (TSG#	TSG Doc.	CR	Rev	Subject/Comment	New
2004-09 (2004-09 (2004-09 (CN#24	NP-040292			Version 2.0.0 presented for information and approval	6.0.0
2004-09	CN#25	NP-040401	001		Correction of Charging application reference	6.1.0
	CN#25	NP-040401	002		Correction of the Application-Id code	6.1.0
	CN#25	NP-040401	003		Removal of User Data Request Type AVP	6.1.0
2004-09	CN#25	NP-040412	004	1	Re-numbering of 3GPP specific AVP codes.	6.1.0
	CN#26	NP-040579	006		Inclusion of missing Cx AVPs	6.2.0
	CN#26	NP-040580	007	1	Reservation of command code 310	6.2.0
	CN#26	NP-040579	009	1	Addition of Gmb interface	6.2.0
	CN#26	NP-040600	010	2	Documenting the Reuse of the 3GPP specific application identifier of Ro for	6.2.0
2004-12	CN#26	NP-040579	011		Re on the Charging Interfaces Gq interface allocations	6.2.0
	CN#26		012		Addition of Gx interface	6.2.0
	CN#27	NP-040379		1	WLAN Diameter AVP and result codes	6.3.0
2005-03	CIN#Z1		040	-		0.3.0
		NP-050039 NP-050039	045		Allocations for Gx interface Allocations for Gmb interface	+
		NP-050039			Allocations for MMS, MM10 Interface	+
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.4.0
2005-06	C1#20		0050	1		0.4.0
2005.00	OT#00			1	Addition of Maximum-Number-Accesses AVP	0.5.0
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.5.0
		CP-050310			Addition of Pr reference point to TS 29.230	
		CP-050310			Error code cleanup	
2005.00	OT#00	CP-050310			Addition of Rx ref. point and renaming of Experimental Result Codes	7.00
	CT#29		0055		Addition of GUSS timestamp AVP	7.0.0
2005-12	CT#30		0058		Addition of GBA-Type AVP	7.1.0
		CP-050612			Additional Gmb AVP Allocation	
		CP-050612	0065		Reservation of AVP codes for 32.299	
	O=::01	CP-050625	0066		Management of Sh subscriptions	
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.2.0
		CP-060084			User-Data in the response to Sh-Subs-Notif	
		CP-060084	0072	1	New error indications for the Sh-Subs-Notif procedure	
	CT#32	CP-060302			S-CSCF reselection removal	7.3.0
2006-09	CT#33		0077	3	New AVP Code	7.4.0
		CP-060417	0800		Errors to be sent in response to Sh-Notif	
		CP-060417	0081		Definition of specific Diameter codes for DSAI	
2006-12	CT#34	CP-060566		1	Optimization of handling of Wildcarded PSIs	7.5.0
		CP-060562	0086		Addition of Diameter Error Code for Emergency Purposes	
		CP-060555	0087		Allocation of new AVP codes for Gmb	
			0089		AVP code allocations for Rf and Ro interfaces	
			0091		Allocation of Success Result Code Range for Gi Interface	
2007-03	CT#35		0093		C3 requested addition of new AVP code values to 3GPP TS 29.230	7.6.0
		CP-070020			Allocation of new AVP code for DSAI-Tag AVP	
		CP-070020			Allocation of Experimental-Result-Code AVP for Gi Interface	
2007-06	CT#36	CP-070318			Diameter application ID for the Rel-7 Rx interface	7.7.0
		CP-070312			Experimental-Result-Codes for Gmb interface	
		CP-070312			Correction of Diameter AVP code allocation	
	CT#37		0102		Application ID for Gx protocol	7.8.0
2007-12	CT#38	CP-070743	0104		AVP code reservation for 32.299 in Rel-7	7.9.0
			0105		Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol	
2007-12	CT#38	CP-070755	0101	4	AVP assignments to support SIP Digest Authentication	8.0.0
			0103		AVP code reservation for 32.299 in Rel-8	-
	CT#39	CP-080015	0109		Correction of reference to TS 29.140	8.1.0
2008-03	000	CP-080019			AVP code reservation for TS 32.299 in Rel-8	-
2008-03		CP-080019			Wildcarded Public User Identities	1
2008-03			0112	1	Correction on AVP code allocation reservation for TS 32.299 in Rel-7	╡
2008-03		ICP-Unuisi				┪
2008-03				1	ICorrection on AVP code allocation reservation for 18.32.299	
	CT#40	CP-080204	0113		Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx	820
2008-06	CT#40	CP-080204 CP-080267	0113 0117		A new Diameter Permanent Failure Code for Gx	8.2.0
2008-06 2008-09	CT#41	CP-080204 CP-080267 CP-080456	0113 0117 0119	1	A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal	8.2.0 8.3.0
2008-06 2008-09 2008-09	CT#41 CT#41	CP-080204 CP-080267 CP-080456 CP-080460	0113 0117 0119 0121	1	A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal Support of "Loose-Route" indication from HSS	
2008-06 2008-09 2008-09 2008-09	CT#41 CT#41 CT#41	CP-080204 CP-080267 CP-080456 CP-080460 CP-080460	0113 0117 0119 0121 0122	1	A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal Support of "Loose-Route" indication from HSS STAMIP Application Id	
2008-06 2008-09 2008-0	CT#41 CT#41 CT#41 CT#41	CP-080204 CP-080267 CP-080456 CP-080460 CP-080460 CP-080463	0113 0117 0119 0121 0122 0123	1	A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal Support of "Loose-Route" indication from HSS STaMIP Application Id Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment)	8.3.0
2008-06 2008-09 2008-0	CT#41 CT#41 CT#41 CT#41 CT#41	CP-080204 CP-080267 CP-080456 CP-080460 CP-080460 CP-080463 CP-080463	0113 0117 0119 0121 0122 0123 0124	1 1 1	A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal Support of "Loose-Route" indication from HSS STaMIP Application Id Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment) New AVP Code Assignment for Forking Service Restoration	8.3.0
2008-06 2008-09 2008-09 2008-09 2008-09 2008-12 2008-1	CT#41 CT#41 CT#41 CT#41	CP-080204 CP-080267 CP-080456 CP-080460 CP-080460 CP-080463	0113 0117 0119 0121 0122 0123	1 1 1 2	A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal Support of "Loose-Route" indication from HSS STaMIP Application Id Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment)	8.3.0

2009-03	CT#43	CP-090044	0131	1	Handling LCS Subscription Data	8.5.0
2009-03	CT#43	CP-090026	0132		Update for Restoration	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.5.0
2009-03	CT#43	CP-090033			Appld and command code for Zpn	8.5.0
2009-03	CT#43	CP-090024			AVP codes for S9 protocol	8.5.0
2009-03	CT#43	CP-090024			Diameter AVP Code allocation	8.5.0
2009-03	CT#43	CP-090024			Location of Permanent Failure result code range for the S9 application	8.5.0
2009-03	CT#43	CP-090024		<u> </u>	AVPs for TS 29.273	8.5.0
				1		
2009-03	CT#43	CP-090024			Error code allocation for authentication failure	8.5.0
2009-06	CT#44	CP-090299		4	Update of the AVP Codes	8.6.0
		CP-090299			AVP code reservation for TS 32.299	
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13'	
			0146		Removal of Requesting Node Type from AIR	
		CP-090299	0147		S6b Application ID	
2009-09	CT#45	CP-090530	0149		Allocation of Experimental-Result-Codes for S9 protocol	8.7.0
		CP-090530	0152		AVP code allocation for TS 29.212	
		CP-090531	0150		Update of the AVP type for the User-Id	
		CP-090531			Trace Depth per session	
2009-09	CT#45	CP-090557			AVP code range for charging	9.0.0
2009-12	CT#46	CP-090800		1	ICS-Flag	9.1.0
2000 12	011110	CP-091032			From GMLC-Address to GMLC-Number	- 0.1.0
		0. 00.002	0160		Session-Priority AVP	
			0163		Introduction of SLh application related AVPs and Experimental Result codes	
			0166	-	Missing AVP error codes	1
		CP-090797		1	Introduction of SLg application related AVPs and Application Identifier	+
2010-03	CT#47	CP-090797	0158		Wildcarded Public Identity	9.2.0
2010-03	01#41	CP-100031			Correction on AVP code allocation reservation for TS 32.299 in Rel-9	9.2.0
		CP-100034			AVP code allocation for 29.172	+
		CP-100046		1	GPL_U support in TS 29.109	
		CP-100036	_		Error codes in 29.172 for SLg	
				1		
		CP-100048		1	AVPs in 29.272 for TADS support	
		CP-100040		4	Error codes in 29.272 for Unknown MME	
		CP-100236		4	EPS Subcsriber State and Location Information Request	
		CP-100033			One time notification AVP allocation	
		CP-100046			Addition of the LCS-QoS-Class attribute value	
0040.00	OT#40	CP-100175		4	Introduction of the LCS-Capabilities-Sets AVP in SLh interface	0.0.0
2010-06	CT#48	CP-100263		1	AVP Codes for PCC	9.3.0
		OD 400007	0183		EPS state and location retrieval	
		CP-100287		4	SGmb Application ID	
2040.00	CT#40	CP-100277			New APVs in S6a protocol	0.4.0
2010-09	CT#49	CP-100463		1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces	9.4.0
0040.00	OT#40	CP-100464		_	AVP Codes Allocation for PCC	40.00
2010-09	CT#49	CP-100465			SIPTO Permission Indicator	10.0.0
		CP-100466			Location data including only serving node address	
	0===	CP-100466			AVP for Update-Eff feature	
2010-12	C1#50	CP-100699			Enhanced SRVCC Subscriber Data	10.1.0
		CP-100687			Allocate codes for AVPs on eMPS	
		CP-100683			Allocate codes for AVPs on LIPA	
		CP-100688			Periodic TAU/RAU timer in HSS subscription	4
		CP-100846		1	S6a Error Diagnostic	1
2011-03	CT#51	CP-110051			PDP-Address correction	10.2.0
		CP-110054			Essential correction on the value type of the ELP Application AVPs	
		CP-110087			Minimization of Drive Tests (MDT)	4
		CP-110088			Relay Node Indicator AVPs	1
2011-06	CT#52	CP-110349			Handling of RTR for Emergency Registration	10.3.0
		CP-110347		1	Add AVPs from QSPEC cleanup	
		CP-110359	0226		MIPv4 security parameters on the STa and S6b interfaces	
		CP-110380	0216		MDT user consent	
		CP-110370	0223		AVP Code Allocation for Pre-paging	
		CP-110375		1	PUR-Flags AVP	1
2011-09	CT#53	CP-110559			AVP code alignment with 29.212	10.4.0
		CP-110555			AVP code alignment with 32.299	7
		CP-110554			AVP code alignment with 29.214	1
		CP-110552			Experimental Result Code Alignment with 29.061	1
		CP-110555			Failure code and AVP code alignment with 29.212	1
		CP-110722		2	Priviledged sender	1
2011-09	CT#53	CP-110584			Add vSRVCC updates to the Diameter AVP code table	11.0.0
2011-03	0.700	CP-110504		+ -	AVP code alignment with 32.299	11.0.0
		CP-110579 CP-110555			AVP code alignment with 32.299 AVP code reservation for 29.212	+
2011 12	CT#5 4			1		11 1 0
2011-12	CT#54	CP-110812		1	SWx Restoration AVPs	11.1.0
İ		CP-110812		1	Sy and Sd Application IDs	4
l .		CP-110775	0262		New AVP codes for MBMS IP unicast encapsulation	
			000-		AL AVE I CARAGOR III III III III	
		CP-110775 CP-110786			New AVP codes for MBMS IP multicast encapsulation MME-Realm AVP code allocation	_

		CP-110811			Equivalent PLMN CSG Subscription Request	
		CP-110781			Restoration of Wildcarded-IMPU AVP	
2012-03	CT#55	CP-120025		1	Codes Allocation for AVPs on Initial Attach	11.2.0
		CP-120038			New AVP codes for Absolute Time of MBMS Data Transfer over SGmb	
2012.06	CT#EC	CP-120038			Allocating Diameter AVP codes for TS 29.219 and TS 29.212 Codes Allocation for AVPs on NPLI	11 2 0
2012-06	CT#56	CP-120240 CP-120238			Adding new Diameter AVPs to Diameter table to support Trusted WLAN	11.3.0
		CP-120236	0294	'	Access feature	
		CP-120225	0296	1	Trust Relationship Indication	
		CP-120251	0297		Corrections to reference titles	
		CP-120251	0298		Diameter Code Allocation for TS 29.219	-
		CP-120247			Network Name AVP codes	
		CP-120219			Duplicated AVP names	-
2012-09	CT#57	CP-120481			PS additional number allocation	11.4.0
2012 00	01/101	CP-120473			SMS in MME/SGSN	11.4.0
		CP-120461			AAA Failure Recovery AVP codes	
		CP-120474			Transport Access Type AVP for BBAI	
		CP-120480			Local Time Zone	
		CP-120472			Allocating Application Identifier and command code for Tsp interface	
		CP-120472			Application Identifier, Command Codes and AVP range for S6m interface	
		CP-120667			GMLC-Name	
			0313	1	Reference list correction to align with the corrected TS 29.212 title	
2012-12	CT#58	CP-120731			T4 device triggering via IMS	11.5.0
		CP-120731	0318	1	Codes and Identifier Allocation for T4 Specification	
		CP-120731	0324		AVP Code Allocation for 29.336	
		CP-120731			Diameter AVP code value allocation in TS 29.368	
		CP-120732	0319	2	Application Identifier, Command Codes and AVP codes for SGd, S6c	
		CP-120716	0324	1	AVP name modification in TS 32.299	
		CP-120742	0325	-	UE Time Zone AVP	
		CP-120741		1	Use of Flag instead of Enumerated AVPs	
		CP-120741		-	Use of Flag instead of Enumerated AVPs	
		CP-120743		-	PSI direct routing with restoration procedures	
		CP-120743		-	EPS LocationInformation Support	
2013-03	CT#59	CP-130026			Diameter error code for TS 29.219	11.6.0
		CP-130026			MDT parameters	
2013-03	CT#59	CP-130156		1	New AVPs for Lgd interface	12.0.0
		CP-130030		-	Validity Time of Short Message	
2013-06	CT#60	CP-130288			Add new DER-S6b-flag AVP	12.1.0
					Failure Result Codes Allocation for TS 29.219	
		CP-130292			Diameter AVP codes for new TS 32.299 AVPs	
		CP-130279			Definition of SS Status for Call Barring	
		CP-130380			New SGs-MME-Identity AVP	_
		CP-130291	0348	2	New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over	
		CP-130297	0247	1	Lgd interface Application Port Identifier	
		CP-130297			MTRR on Sh	
		CP-130374			Restoration Priority during SGW and PGW restoration procedures	
		CP-130293			SIPTO permission for Local Network enhancements	
2013-09	CT#61	CP-130454			New MBMS flag for eMBMS restoration	12.2.0
2010 00	01//01	CP-130461	0366		AVP code reservation for TS 32.299 Rel-12	12.2.0
		CP-130460			Allocation of Diameter codes and identifiers for 29.212 and 29.215	-
2013-09		01 100 100	0000	1-	Vendor-specific command code for Trigger-Establishment-Request/Answer	12.2.1
2010 00					corrected	
2013-12	CT#62	CP-130624	0369	t-	New AVP for optimized LCS procedure for combined MME/SGSN	12.3.0
	J 32		0370	1	Adding E-SMLC provided Cell info and Cell Portion	7
		CP-130800			New AVPs for SMS for IMS UE without MSISDN in TS 29.338	1
		CP-130600		1	Allocation of Diameter codes for 32.299	1
		CP-130605		ļ-	Allocation of Diameter codes for 29.212	1
		CP-130639	0380	1-	SGSN CAMEL Subscription Indication	1
2014-03	CT#63	CP-140180			Protocol enhancements for the support of device replace procedure	12.4.0
	1	CP-140035	0384		New AVP for the support of combined MME/SGSN	7
					Definition of WLAN-related AVPs	1
		CP-140023	0383			_
	CT#64	CP-140023 CP-140211	0383 0385	_		12.5.0
	CT#64		1	_	Protocol enhancements to indicate support of device recall and replace by SMS-SC	12.5.0
	CT#64		0385	_	Protocol enhancements to indicate support of device recall and replace by SMS-SC	12.5.0
	CT#64	CP-140211	0385 0402	_	Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic	12.5.0
	CT#64	CP-140211 CP-140251 CP-140257	0385 0402 0391	1	Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition	12.5.0
	CT#64	CP-140211 CP-140251 CP-140257 CP-140252	0385 0402 0391 0392	1	Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition Definition of AVPs for Network Location in TWLAN	12.5.0
	CT#64	CP-140211 CP-140251 CP-140257 CP-140252 CP-140236	0385 0402 0391 0392 0399	1	Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition Definition of AVPs for Network Location in TWLAN TWAN-BSSID AVP re-naming	12.5.0
	CT#64	CP-140211 CP-140251 CP-140257 CP-140252 CP-140236 CP-140247	0385 0402 0391 0392 0399 0397	1	Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition Definition of AVPs for Network Location in TWLAN TWAN-BSSID AVP re-naming New AVPs for Trusted WLAN access	12.5.0
2014-06	CT#64	CP-140211 CP-140251 CP-140257 CP-140252 CP-140236 CP-140247 CP-140231	0385 0402 0391 0392 0399 0397 0390	1 1 1 1 1	Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition Definition of AVPs for Network Location in TWLAN TWAN-BSSID AVP re-naming New AVPs for Trusted WLAN access Adding Codes for 29.214	12.5.0
2014-06		CP-140211 CP-140251 CP-140257 CP-140252 CP-140236 CP-140247 CP-140231 CP-140515	0385 0402 0391 0392 0399 0397 0390 0403	1 1 1 1 1 1	Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition Definition of AVPs for Network Location in TWLAN TWAN-BSSID AVP re-naming New AVPs for Trusted WLAN access Adding Codes for 29.214 T-GRUU restoration	
2014-06		CP-140211 CP-140251 CP-140257 CP-140252 CP-140236 CP-140247 CP-140231 CP-140515 CP-140517	0385 0402 0391 0392 0399 0397 0390 0403 0404	1 1 1 1 1 1 1	Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition Definition of AVPs for Network Location in TWLAN TWAN-BSSID AVP re-naming New AVPs for Trusted WLAN access Adding Codes for 29.214 T-GRUU restoration MB2-C codes	
2014-06		CP-140211 CP-140251 CP-140257 CP-140252 CP-140236 CP-140247 CP-140231 CP-140515	0385 0402 0391 0392 0399 0397 0390 0403 0404 0405	1 1 1 1 1 1 1 1 1	Protocol enhancements to indicate support of device recall and replace by SMS-SC AVP allocation for Error handling, MTC error diagnostic SS-Status AVP Definition Definition of AVPs for Network Location in TWLAN TWAN-BSSID AVP re-naming New AVPs for Trusted WLAN access Adding Codes for 29.214 T-GRUU restoration	

	}	CP-140513	0408	-	Identification of the HSS Editorial: WLAN-offloadability AVP codes added as in CR C4-141648.	
2014-12	CT#66	CP-140785	0409	1	New AVP for MBMS restoration	12.7.0
2014-12	01#00	01 -140703	0430		New Diagnostic-Info AVP for MBMS restoration	12.7.0
			0410	_	WLCP key for WLCP signalling protection	
			0411	-	Reset-ID Reset-ID	
	ļ		0416		Code definitions for 32.299	
			0428		Removal of I-WLAN AVPs	_
			0429		Reference correction	
	}		0433		Code allocation for 29.212	
	}		0418 0422	_	MDT PLMN List Codes Allocation for PC2 Protocol	-
	}		0422		Codes Allocation for PC4a Protoco	
			0431	_	Allocation of values for Application ID, Command codes, AVP codes and Experimental-Result codes used in the TS 29.345	
			0434	1	Command Code and Error Code for ProSe Initial Location Information Retrieval	
			0425	-	Corrections of the type of some AVPs	1
			0426	1	OFR-Flags AVP code	
	ĺ		0427	1	P-CSCF Restoration mechanism new error	
2015-03	CT#67	CP-150015	0447	-	Renaming of Location-Type AVP	12.8.0
			0437		Location reporting in emergency 1xSRVCC	1
	1		0435		AVP codes for GCSE MB2-C	
	}		0442		New AVPs and range of transient failure result codes in TS 29.214	1
	1		0438		Allocation of code for Authorized-Discovery-Range AVP (TS 29.344)	ł
	}		0440		Location Update Trigger AVP codes allocation for Validity related AVPs for TS 20 245	-
	}		0441 0443		AVP codes allocation for Validity related AVPs for TS 29.345 Allocation of codes for the Integrity Checks. Aspect AVPs	1
2015-03	CT#67	CP-150039			Diameter Application Identifier for Np protocol	13.0.0
2015-05	CT#67	CP-150059			AVP code allocation for Match Refresh Timer AVP in TS 29.345	13.1.0
2013 00	01#00	CP-150247			Wrong CR implementation of CR 0416r1	13.1.0
		CP-150249			AVP code allocation for 32.299	1
		CP-150263			AVP codes for Access Restriction Data per PLMN	
		CP-150372		-	IP-SM-GW-Realm	
2015-09	CT#69	CP-150454	0462	-	Subscription data for extended buffering at the SGW	13.2.0
	İ	CP-150442	0463	-	Overlapping transaction over S6b	
		CP-150453			Addition of IMSI Group Id AVP definition	
	1	CP-150449			Addition of CP parameter AVP definition	
		CP-150431			AVP codes for TS 29.212	
		CP-150456			AVP definition for S6t	
2015-12	CT#70	CP-150761			Addition of MBMS-Cell-List AVP	13.3.0
		CP-150778 CP-150778			S6t Application ID and Command Codes	-
	}	CP-150778			Bitmask to inform the SCEF of the Monitoring capabilities AVP codes for MONTE T6a/b interface	-
		CP-150778		1	Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data	
		0	0.0.		types	
		CP-150778	0494	2	Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE)	
	İ	CP-150778	0501	1	Definition of AVP SCEF-ID	1
		CP-150778	0502	2	Service result per Event configuration	1
		CP-150770	0475	1	Emergency PDN connection over untrusted WLAN access	
		CP-150776	0476	-	EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due]
		1		ļ	to power saving	1
		CP-150776			Mobile Terminating SMS handling for extended Idle mode DRX	
		CP-150776			Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option	
		CP-150777			Commands and codes for Np protocol	1
		CP-150772			Definition of ProSe-Metadata-Index-Mask	-
	1	CP-150772			Addition of AVPs and result-codes	1
	}	CP-150772			Addition of AVP used in match report procedure for eProSe-Ext-CT	1
	}	CP-150754 CP-150773			Allowed WAF and/or WWSF Identities Add the default access type to 3GPP specific AVP	1
	}	CP-150773			AVP code allocation for "UE Usage Type"	1
	}	CP-150761			Metadata in Match-Report	ł
	İ	CP-150755			New Group AVP for ProSe direct discovery procedures	1
	İ	CP-150771			Definition of AVP for AESE-CT	i
	İ	CP-150771			Command codes and AVP range for TS 29.154 and TS 29.153	i
		CP-150776			AVP codes for Indoor Positioning support in SLg/Lgd	1
2016-03	CT#71	CP-160041			Application ID for St	13.4.0
		CP-160041			Correction on TS numbers	1
		CP-160041			AVPs for the Rx Diameter application	1
		CP-160041			AVP code reservation for 32.299	
				1		

CP-160029	
CP-160035 0507 Sepretic AVP codes for NBIFOM	Cara
CP-160035 0508 Specific AVP codes for NBIFOM CP-160030 0511 Specific AVP codes for NBIFOM CP-160037 0512 PDG retrieval of WILAN Location Information CP-160033 0520 New PDN-Type for Cellular loT CP-160036 0517 Monitoring update and Reporting of update result CP-160036 CP-1	time
CP-160030	
CP-160037 CP-160037 CP-160033 CP-160033 CP-160033 CP-160033 CP-160030 CP-1	using
CP-160033 CP-160033 CP-160034 CP-160036 CP-160036 O517 CP-160036 O517 Monitoring update and Reporting of update result CP-160036 O519 3 Allocation of new Diameter Application ID and commands code for P protocol AVP code reservation for 32.299 2016-06 CT#72 CP-160236 O526 1 Command Codes for 29.212 2016-06 CT#72 CP-160236 O543 AVP code range 3900-3999 CT#72 CP-160236 O557 New AVPs in TS 29.214 CP-160236 O557 New AVPs in TS 29.214 CP-160236 O557 AVP codes for 29.212 CP-160236 O556 AVP codes for 29.212 CP-160236 O557 AVP codes for 29.212 CP-160236 O558 AVP codes for 29.212 CP-160236 O559 AVP codes for 29.343 CT#72 CP-160232 O528 AVP codes for 29.343 Addition of new AVPs for ProSe direct discovery security and open of direct discovery with application-controlled extension CT#72 CP-160232 O540 Assignment of application ID and command code for PC2 reference 2016-06 CT#72 CP-160223 O549 Assignment of application ID and command code for PC2 reference 2016-06 CT#72 CP-160228 O551 IANA Command Code Registration CT#72 CP-160228 O550 NIDD authorisation update CT#72 CP-160228 O550 NIDD authorisation update CT#72 CP-160228 O560 Serving PLMN Rate Control 2016-06 CT#72 CP-160228 O563 New AVP for APN Rate Control 2016-06 CT#72 CP-160228 O563 New AVP for APN Rate Control 2016-06 CT#72 CP-160230 O554 New AVPs allocated for 29.153 and 29.154 2016-06 CT#72 CP-160227 O546 New AVPs allocated for 29.153 and 29.154 2016-06 CT#72 CP-160227 O546 New AVPs allocated for 29.153 and 29.154 CP-160237 O546 New AVPs allocated for 29.153 and 29.154 CP-160237 O546 New AVPs allocated for 29.159 and 29.154 CP-160237 O546 New AVPs allocated for 29.159 and 29.154 CP-160237 O546 New AVPs allocated for 29.159 and 29.154 CP-160237 O546 New AVPs allocated for 29.214 OF-160449 O572 New AVPs allocated for 32.299 O556	dolling
CP-160033 CP-160033 CP-160034 CP-160036 CP-160036 O517 CP-160036 O517 Monitoring update and Reporting of update result CP-160036 O519 3 Allocation of new Diameter Application ID and commands code for P protocol AVP code reservation for 32.299 2016-06 CT#72 CP-160236 O526 1 Command Codes for 29.212 2016-06 CT#72 CP-160236 O543 AVP code range 3900-3999 CT#72 CP-160236 O557 New AVPs in TS 29.214 CP-160236 O557 New AVPs in TS 29.214 CP-160236 O557 AVP codes for 29.212 CP-160236 O556 AVP codes for 29.212 CP-160236 O557 AVP codes for 29.212 CP-160236 O558 AVP codes for 29.212 CP-160236 O559 AVP codes for 29.343 CT#72 CP-160232 O528 AVP codes for 29.343 Addition of new AVPs for ProSe direct discovery security and open of direct discovery with application-controlled extension CT#72 CP-160232 O540 Assignment of application ID and command code for PC2 reference 2016-06 CT#72 CP-160223 O549 Assignment of application ID and command code for PC2 reference 2016-06 CT#72 CP-160228 O551 IANA Command Code Registration CT#72 CP-160228 O550 NIDD authorisation update CT#72 CP-160228 O550 NIDD authorisation update CT#72 CP-160228 O560 Serving PLMN Rate Control 2016-06 CT#72 CP-160228 O563 New AVP for APN Rate Control 2016-06 CT#72 CP-160228 O563 New AVP for APN Rate Control 2016-06 CT#72 CP-160230 O554 New AVPs allocated for 29.153 and 29.154 2016-06 CT#72 CP-160227 O546 New AVPs allocated for 29.153 and 29.154 2016-06 CT#72 CP-160227 O546 New AVPs allocated for 29.153 and 29.154 CP-160237 O546 New AVPs allocated for 29.153 and 29.154 CP-160237 O546 New AVPs allocated for 29.159 and 29.154 CP-160237 O546 New AVPs allocated for 29.159 and 29.154 CP-160237 O546 New AVPs allocated for 29.159 and 29.154 CP-160237 O546 New AVPs allocated for 29.214 OF-160449 O572 New AVPs allocated for 32.299 O556	
CP-160036 CP-160032 CP-1	
CP-160036 O519 3	
2016-03 CT#71 CP-160018 0515 1 AVP code reservation for 32.299	
2016-03 CT#71 CP-160018 0515 1 AVP code reservation for 32.299	PC2
2016-06 CT#72 CP-160236 0526 1 Command Codes for 29.212	
2016-06 CT#72 CP-160236 0543 - AVP code range 3900-3999	14.0.0
2016-06 CT#72 CP-160236 0557 1 New AVPs in TS 29.214	14.1.0
2016-06	14.1.0
2016-06	14.1.0 14.1.0
2016-06	14.1.0
direct discovery with application-controlled extension	
2016-06 CT#72 CP-160232 0540 - Reserved Experimental Result Codes for TS 29.343	1036 14.1.0
2016-06	14.1.0
2016-06 CT#72 CP-160228 0531 - IANA Command Code Registration	
2016-06 CT#72 CP-160228 0541 1 CloT new commands and Diameter error 2016-06 CT#72 CP-160228 0550 - NIDD authorisation update 2016-06 CT#72 CP-160228 0560 3 Serving PLMN Rate Control 2016-06 CT#72 CP-160228 0563 - New AVP for APN Rate Control 2016-06 CT#72 CP-160233 0537 1 Renaming of Validity-Time AVP 2016-06 CT#72 CP-160233 0562 1 New AVPs allocated for 29.153 and 29.154 2016-06 CT#72 CP-160225 0548 3 SCEF Realm 2016-06 CT#72 CP-160225 0548 - Cleanup up on MONTE AVP's 2016-06 CT#72 CP-160227 0546 - IANA assigned application Id and command code values 2016-06 CT#72 CP-160227 0547 2 Allocation of AVP codes and Experimental Result codes for Diameter Management application 2016-06 CT#72 CP-160221 0555 1 Shared Subscriptio	14.1.0
2016-06 CT#72 CP-160228 0550 - NIDD authorisation update 2016-06 CT#72 CP-160228 0560 3 Serving PLMN Rate Control 2016-06 CT#72 CP-160228 0563 - New AVP for APN Rate Control 2016-06 CT#72 CP-160233 0537 1 Renaming of Validity-Time AVP 2016-06 CT#72 CP-160233 0562 1 New AVPs allocated for 29.153 and 29.154 2016-06 CT#72 CP-160225 0545 3 SCEF Realm 2016-06 CT#72 CP-160225 0548 - Cleanup up on MONTE AVP's 2016-06 CT#72 CP-160227 0546 - IANA assigned application Id and command code values 2016-06 CT#72 CP-160227 0547 2 Allocation of AVP codes and Experimental Result codes for Diamete Management application 2016-06 CT#72 CP-160231 0553 1 3GPP specific AVP for NBIFOM 2016-09 CT#73 CP-160224 0570 1 Missing AVP codes and Exper	14.1.0
2016-06	14.1.0
2016-06	14.1.0
2016-06	14.1.0
2016-06	14.1.0
2016-06	14.1.0
2016-06 CT#72 CP-160227 0546 - IANA assigned application Id and command code values 2016-06 CT#72 CP-160227 0547 2 Allocation of AVP codes and Experimental Result codes for Diamete Management application 2016-06 CT#72 CP-160231 0553 1 3GPP specific AVP for NBIFOM 2016-06 CT#72 CP-160222 0555 1 Shared Subscription data update 2016-09 CT#73 CP-160424 0570 1 Missing AVP codes and Experimental-Result codes for T6a 2016-09 CT#73 CP-160424 0574 1 Allocate of AVP Handling of Exception Reports in the Core Network 2016-09 CT#73 CP-160419 0572 1 AVP codes for 32.299 2016-09 CT#73 CP-160419 0576 1 AVP code for 29.214 2016-09 CT#73 CP-160436 0568 1 STa and SWm extensions for IMEI check 2016-12 CT#74 CP-160650 0582 - AVP code alignment with 29.272	14.1.0
2016-06 CT#72 CP-160227 0547 2 Allocation of AVP codes and Experimental Result codes for Diameter Management application 2016-06 CT#72 CP-160231 0553 1 3GPP specific AVP for NBIFOM 2016-06 CT#72 CP-160222 0555 1 Shared Subscription data update 2016-09 CT#73 CP-160424 0570 1 Missing AVP codes and Experimental-Result codes for T6a 2016-09 CT#73 CP-160424 0574 1 Allocate of AVP Handling of Exception Reports in the Core Network 2016-09 CT#73 CP-160419 0572 1 AVP codes for 32.299 2016-09 CT#73 CP-160419 0576 1 AVP code for 29.214 2016-09 CT#73 CP-160419 0578 1 AVP code for 29.212 2016-09 CT#73 CP-160436 0568 1 STa and SWm extensions for IMEI check 2016-12 CT#74 CP-160650 0582 - AVP code alignment with 29.272	14.1.0
Management application	14.1.0 er Data 14.1.0
2016-06 CT#72 CP-160231 0553 1 3GPP specific AVP for NBIFOM 2016-06 CT#72 CP-160222 0555 1 Shared Subscription data update 2016-09 CT#73 CP-160424 0570 1 Missing AVP codes and Experimental-Result codes for T6a 2016-09 CT#73 CP-160424 0574 1 Allocate of AVP Handling of Exception Reports in the Core Network 2016-09 CT#73 CP-160419 0572 1 AVP codes for 32.299 2016-09 CT#73 CP-160419 0576 1 AVP code for 29.214 2016-09 CT#73 CP-160419 0578 1 AVP code for 29.212 2016-09 CT#73 CP-160436 0568 1 STa and SWm extensions for IMEI check 2016-12 CT#74 CP-160650 0582 - AVP code alignment with 29.272	14.1.0
2016-06 CT#72 CP-160222 0555 1 Shared Subscription data update 2016-09 CT#73 CP-160424 0570 1 Missing AVP codes and Experimental-Result codes for T6a 2016-09 CT#73 CP-160424 0574 1 Allocate of AVP Handling of Exception Reports in the Core Network 2016-09 CT#73 CP-160419 0572 1 AVP codes for 32.299 2016-09 CT#73 CP-160419 0576 1 AVP code for 29.214 2016-09 CT#73 CP-160419 0578 1 AVP code for 29.212 2016-09 CT#73 CP-160436 0568 1 STa and SWm extensions for IMEI check 2016-12 CT#74 CP-160650 0582 - AVP code alignment with 29.272	14.1.0
2016-09 CT#73 CP-160424 0570 1 Missing AVP codes and Experimental-Result codes for T6a 2016-09 CT#73 CP-160424 0574 1 Allocate of AVP Handling of Exception Reports in the Core Network 2016-09 CT#73 CP-160419 0572 1 AVP codes for 32.299 2016-09 CT#73 CP-160419 0576 1 AVP code for 29.214 2016-09 CT#73 CP-160419 0578 1 AVP code for 29.212 2016-09 CT#73 CP-160436 0568 1 STa and SWm extensions for IMEI check 2016-12 CT#74 CP-160650 0582 - AVP code alignment with 29.272	14.1.0
2016-09 CT#73 CP-160424 0574 1 Allocate of AVP Handling of Exception Reports in the Core Network 2016-09 CT#73 CP-160419 0572 1 AVP codes for 32.299 2016-09 CT#73 CP-160419 0576 1 AVP code for 29.214 2016-09 CT#73 CP-160419 0578 1 AVP code for 29.212 2016-09 CT#73 CP-160436 0568 1 STa and SWm extensions for IMEI check 2016-12 CT#74 CP-160650 0582 - AVP code alignment with 29.272	14.2.0
2016-09 CT#73 CP-160419 0572 1 AVP codes for 32.299 2016-09 CT#73 CP-160419 0576 1 AVP code for 29.214 2016-09 CT#73 CP-160419 0578 1 AVP code for 29.212 2016-09 CT#73 CP-160436 0568 1 STa and SWm extensions for IMEI check 2016-12 CT#74 CP-160650 0582 - AVP code alignment with 29.272	14.2.0
2016-09 CT#73 CP-160419 0578 1 AVP code for 29.212 2016-09 CT#73 CP-160436 0568 1 STa and SWm extensions for IMEI check 2016-12 CT#74 CP-160650 0582 - AVP code alignment with 29.272	14.2.0
2016-09 CT#73 CP-160436 0568 1 STa and SWm extensions for IMEI check 2016-12 CT#74 CP-160650 0582 - AVP code alignment with 29.272	14.2.0
2016-12 CT#74 CP-160650 0582 - AVP code alignment with 29.272	14.2.0
	14.2.0
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2018-06 CT#80 CP-181120 0632 1 New AVPs in TS 29.212 for 02018-06 CT#80 CP-181120 0633 1 Reserve Diameter codes for Diameter New AVPs in TS 29.212 for 02018-06 CT#80 CP-181120 0635 - Application ID for Diameter New AVP codes for TS 29.154 2018-06 CT#80 CP-181120 0636 1 AVP codes for TS 29.154 2018-06 CT#80 CP-181120 0637 1 New AVP for subscription for 2018-06 2018-06 CT#80 CP-181120 0639 1 AVP codes for 32.299 2018-06 CT#80 CP-181127 0639 1 AVP codes for 32.299 2018-06 CT#80 CP-181127 0639 1 AVP codes for 32.299 2018-06 CT#80 CP-181127 0634 - AVP codes for 32.299 2018-06 CT#80 CP-181127 0634 - AVP code for NIR-Flags 2018-07 2018-07 2018-07 2018-07 2018-07 2018-07 2018-08 2018-08 2018-08 2018-08 2018-08 2018-08 2018-08 2018-08 2018-08 2018-08 2018-08	VoLP 15.3.0 TS 29.561 15.3.0 ta 15.3.0 Aerial UE in 3GPP system 15.3.0 15.3.0 15.3.0 g keys 15.3.0
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2018-12 CT#82 CP-183092 0653 1 Interworking-5GS-Indicator A	15.4.0
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2020-06 CT#88e CP-201016 0684 - SMSF Address	

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