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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

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

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16777356 3GPP V6 29.389 [41]			
16777358 3GPP Nta 29.154 [38]			
	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				
303	Multimedia-Auth-Request/-Answer	MAR/MAA	29.229 [2]			
304	Registration-Termination-Request/-	RTR/RTA				
	Answer					
305	Push-Profile-Request/-Answer	PPR/PPA				
306	User-Data-Request/-Answer	UDR/UDA				
307	Profile-Update-Request/-Answer	PUR/PUA	20	9.329 [4]		
308	Subscribe-Notifications-Request/-Answer	SNR/SNA	۷.	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-Red	quest/Answer		GPR/G	PI	29.109

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] R8388638 Update-VCSG-Location-Request/Answer UVR/UVA 29.272 [21] R8388638 Update-VCSG-Location-Request/Answer UVR/UVA R8388642 Cancel-VCSG-Location-Request/Answer UVR/UVA Cancel-VCSG-Location-Request/Answer DAR/DAA 29.368 [27] R8388640 Device-Action-Request/Answer DAR/DAA 29.368 [27] DAR/DAA R8388641 Subscriber-Information-Request/Answer SIR/SIA 29.336 [28] R8388718 Configuration-Information-Request/Answer CIR/CIA Request/Answer R8388719 Reporting-Information-Request/Answer NIR/NIA 29.336 [28] R8388726 NIDD-Information-Request/Answer DTR/DTA R8388643 Device-Trigger-Request/Answer DTR/DTA R8388644 Delivery-Report-Request/Answer DTR/DTA 29.337 [29] R8388644 Delivery-Report-Request/Answer DRR/DRA 29.337 [29] R8388645 MO-Forward-Short-Message TFR/TFA Request/Answer Request/Answer R8388646 MT-Forward-Short-Message TFR/TFA Request/Answer R8388647 Send-Routing-Info-for-SM-Request/Answer ALR/ALA R8388648 Alert-Service-Centre-Request/Answer ALR/ALA R8388649 Report-SM-Delivery-Status-Request/Answer ALR/ALA R8388664 Report-SM-Delivery-Status-Request/Answer ALR/ALA R8388664 GCS-Notification-Request/Answer GAR/GAA R8388664 GCS-Notification-Request/Answer GAR/GAA R8388666 GCS-Notification-Request/Answer GAR/GAA R8388666 ProSe-Subscriber-Information-Request/Answer PR/PNA R8388668 ProSe-Discorery-Request/Answer PR/PNA R8388668 ProSe-Discorery-Request/Answer PAR/PAA R8388669 ProSe-Discorery-Request/Answer PAR/PAA R	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 PIR/PIA 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA 8388665 Update-ProSe-Subscriber-Data-Request/Answer PNR/PNA 8388666 ProSe-Notify-Request/Answer PNR/PNA	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		

0200674	DroCo Motob Donort Info	PIR/PIA	
8388671	ProSe-Match-Report-Info- Request/Answer		
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	
8388673	ProSe-Location-Update-Request/Answer	PLR/PLA	1
8388674	ProSe-Alert-Request/Answer	ALR/ALA	1
8388675	ProSe-Cancellation-Request/Answer	RPR/RPA	1
8388676	ProXimity-Action-Request/Answer	PXR/PXA	
8388727	ProXimity-Application-Request/Answer	XAR/XAA	29.343 [32]
8388720	Non-Aggregated-RUCI-Report- Request/Answer	NRR/NRA	
8388721	Aggregated-RUCI-Report- Request/Answer	ARR/ARA	29.217 [35]
8388722	Modify-Uecontext-Request/Answer	MUR/MUA	1
8388724	Network-Status-Request/Answer	NSR/NSA	00.450.50=1
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	1
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	00 454 (05)
8388736	Event-Reporting-Request/Answer	ERR/ERA	- 29.154 [38]
			1

6 Vendor identifier

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

6.1 3GPP's vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specified in the 3GPP TS
	3GPP-WLAN-APN-Id	OctetString	
_	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
	3GPP-WLAN-QoS-Filter-Support	OctetString	0 :"
Attribu	The AVP codes from 1 to 255 are reserved for backwards conutes (See 3GPP TS 29.061 [13], 3GPP TS 29.561 [42] and 3G		Specific
	The AVP codes from 256 to 299 are reserved for future use.	Course vete d	
	Authentication-Method Authentication-Information-SIM	Enumerated OctetString	
	Authorization -Information-SIM	OctetString	
	WLAN-User-Data	Grouped	
	Charging-Data	Grouped	
	WLAN-Access	Enumerated	
306	WLAN- 3GPP-IP-Access	Enumerated	
	APN-Authorized	Grouped	
	APN-Id		
	APN-Barring-Type	Enumerated	29.234 [6]
	WLAN-Direct-IP-Access	Enumerated	
	Session-Request-Type	Enumerated	
	Routing-Policy Max-Requested-Bandwidth	IPFilterRule OctetString	
	Max-Requested-Bandwidth Charging-Characteristics	Integer	
	Charging-Nodes	Grouped	
	Primary-OCS-Charging-Function-Name	DiameterIdentity	
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
	3GPP-AAA-Server-Name	DiameterIdentity	
	Maximum-Number-Accesses	Unsigned32	
Note 1	1: The AVP codes from 320 to 399 are reserved for TS 29.234	·	•
	2: The 3GPP-AAA-Server-Name definition is moved to TS 29.2		
400	GBA-UserSecSettings	OctetString	
	Transaction-Identifier NAF-Hostname	OctetString OctetString	
	GAA-Service-Identifier	OctetString	
404	Key-ExpiryTime	Time	
405	ME-Key-Material	OctetString	
406	UICC-Key-Material GBA U-Awareness-Indicator	OctetString Enumerated	
408	BootstrapInfoCreationTime	Time	
409	GUSS-Timestamp	Time	
410	GBA-Type	Enumerated	29.109 [7]
	UE-Id	OctetString	
	UE-Id-Type UICC-App-Label	Enumerated OctetString	
	UICC-ME	Enumerated	
415	Requested-Key-Lifetime	Time	
	Private-Identity-Request	Enumerated	
	GBA-Push-Info NAF-SA-Identifier	OctetString OctetString	
419	Security-Feature-Request	OctetString	
420	Security-Feature-Response	OctetString	
	The AVP codes from 421 to 499 are reserved for TS 29.109		
	Abort-Cause	Enumerated	
	Access-Network-Charging-Address	Address	
	Access-Network-Charging-Identifier	Grouped	
	Access-Network-Charging-Identifier-Value	OctetString	
	AF-Application-Identifier	OctetString	29.209
	AF-Charging-Identifier Authorization-Token	OctetString OctetString	[8],
	Flow-Description	IPFilterRule	29.211
	Flow-Grouping	Grouped	[17],
	Flow-Number	Unsigned32	29.214
	Flows	Grouped	[18]
	Flow-Status	Enumerated	
	Flow-Usage	Enumerated	
	<u> </u>		
513	Specific-Action Max-Requested-Bandwidth	Enumerated	

515 Max-Requested-Bandwidth-DL	Unsigned32
516 Max-Requested-Bandwidth-UL	Unsigned32
517 Media-Component-Description	Grouped
518 Media-Component-Number	Unsigned32
519 Media-Sub-Component AVP	Grouped
520 Media-Type	Enumerated
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
528 MPS-Identifier	OctetString
529 AF-Signalling-Protocol	Enumerated
530 Sponsored-Connectivity-Data	Grouped
531 Sponsor-Identity	OctetString
532 Application-Service-Provider-Identity	OctetString
533 Rx-Request-Type	Enumerated
534 Min-Requested-Bandwidth-DL	Unsigned32
535 Min-Requested-Bandwidth-UL	Unsigned32
536 Required-Access-Info	Enumerated
537 IP-Domain-Id	OctetString
538 GCS-Identifier	OctetString
539 Sharing-Key-DL	Unsigned32
540 Sharing-Key-UL	Unsigned32
541 Retry-Interval	Unsigned32
542 Sponsoring-Action	Enumerated
543 Max-Supported-Bandwidth-DL	Unsigned32
544 Max-Supported-Bandwidth-UL	Unsigned32
545 Min-Desired-Bandwidth-DL	Unsigned32
546 Min-Desired-Bandwidth-UL	Unsigned32
547 MCPTT-Identifier	OctetString
548 Service-Authorization-Info	Unsigned32
549 Media-Component-Status	Unsigned32
550 Priority-Sharing-Indicator	Enumerated
551 AF-Requested-Data	Unsigned32
552 Content-Version	Unsigned64
553 Pre-emption-Control-Info	Unsigned32
554 Extended-Max-Requested-BW-DL	Unsigned32
555 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
559 Extended-Min-Desired-BW-UL	Unsigned32
560 Extended-Min-Requested-BW-DL	Unsigned32
561 Extended-Min-Requested-BW-UL	Unsigned32
562 MCVideo-Identifier	OctetString
563 IMS-Content-Identifier	OctetString
	<u> </u>
564 IMS-Content-Type	Enumerated
565 Callee-Information	Grouped
566 FLUS-Identifier	OctetString
567 Desired-Max-Latency	Float32
568 Desired-Max-Loss	Float32
569 NID	OctetString
570 MA-Information	Grouped
571 MA-Information-Action	Unsigned32
572 5GS-RAN-NAS-Release-Cause	Grouped
573 5GMM-Cause	Unsigned32
574 5GSM-Cause	Unsigned32
575 NGAP-Cause	Grouped
576 NGAP-Group	Unsigned32
577 NGAP-Value	Unsigned32
578 Wireline-User-Location-Info	Grouped
579 HFC-Node-Identifier	OctetString
3/3 HTC-Node-identifier	Octerating

590	GLI-Identifier	OctetString	
	Line-Type	Unsigned32	1
	The AVP codes from 582 to 599 are reserved for TS 29.209, TS		
	Visited-Network-Identifier	OctetString	
	Public-Identity	UTF8String]
	Server-Name	UTF8String	
	Server-Capabilities	Grouped	<u> </u>
	Mandatory-Capability	Unsigned32	<u> </u>
	Optional-Capability User-Data	Unsigned32 OctetString	1
	SIP-Number-Auth-Items	Unsigned32	
	SIP-Authentication-Scheme	UTF8String	1
	SIP-Authenticate	OctetString	1
	SIP-Authorization	OctetString	†
611	SIP-Authentication-Context	OctetString	1
	SIP-Auth-Data-Item	Grouped]
	SIP-Item-Number	Unsigned32	<u> </u>
	Server-Assignment-Type	Enumerated	↓
	Deregistration-Reason	Grouped	-
	Reason-Code Reason-Info	Enumerated UTF8String	1
	Charging-Information	Grouped	1
	Primary-Event-Charging-Function-Name	DiameterURI	†
	Secondary-Event-Charging-Function-Name	DiameterURI	†
	Primary-Charging-Collection-Function-Name	DiameterURI	1
	Secondary-Charging-Collection-Function-Name	DiameterURI	1
	User-Authorization-Type	Enumerated	
	User-Data-Already-Available	Enumerated	
	Confidentiality-Key	OctetString	<u> </u>
	Integrity-Key	OctetString	-
	User-Data-Request-Type Supported-Features	Enumerated	-
	Feature-List-ID	Grouped Unsigned32	1
	Feature-List	Unsigned32	1
	Supported-Applications	Grouped	29.229 [2]
	Associated-Identities	Grouped	1
633	Originating-Request	Enumerated]
	Wildcarded-Public-Identity	UTF8String]
	SIP-Digest-Authenticate	Grouped	<u> </u>
	Wildcarded-IMPU	UTF8String	-
	UAR-Flags	Unsigned32	
	Loose-Route-Indication SCSCF-Restoration-Info	Enumerated Grouped	1
	Path	OctetString	1
	Contact	OctetString	1
	Subscription-Info	Grouped	1
	Call-ID-SIP-Header	OctetString	†
644	From-SIP-Header	OctetString	1
	To-SIP-Header	OctetString]
	Record-Route	OctetString	↓
	Associated-Registered-Identities	Grouped	<u> </u>
	Multiple-Registration-Indication	Enumerated	
	Restoration-Info	Grouped Enumerated	
	Session-Priority Identity-with-Emergency-Registration	Grouped	1
	Priviledged-Sender-Indication	Enumerated	†
	LIA-Flags	Unsigned32	†
	Initial-CSeq-Sequence-Number	Unsigned32	†
	SAR-Flags	Unsigned32]
656	Allowed-WAF-WWSF-Identities	Grouped]
	WebRTC-Authentication-Function-Name	UTF8String	<u>↓</u>
	WebRTC-Web-Server-Function-Name	UTF8String	<u> </u>
	RTR-Flags	Unsigned32	4
	P-CSCF-Subscription-Info	Grouped	
1 hh1	Registration-Time-Out	Time	1

	Note:	The AVP codes from 662 to 699 are reserved for TS 29.229.		
Tot MSISDN			Grouped	
Total User-Data OctetString Total Data Reference Enumerated Total Service-Indication OctetString Total Subar Req Type Enumerated Total Service-Indication Enumerated Total Requested-Domain Enumerated Total Identity-Set Enumerated Total Identity-Set Enumerated Total Identity-Set Enumerated Total Service-Indication Enumerated				
Total Service-Indication	702	User-Data		
Top Subs-Red-Type				
Face				
Formal				_
				_
Time				
			<u> </u>	_
Title DSAI-Tag				-
1712 One-Time-Notification				29.329 [4]
Title Serving-Node-Indication Enumerated			9	
Title Sequence-Number			Unsigned32	
Title Sequence-Number				
Tri-paging-Supported				
Title Local-Time-Zone-Indication				_
Title UDR-Flags				_
T20 Call-Reference-Info				_
Test Call-Reference-Number OctelString				-
Note: The AVP codes from 723 to799 are reserved for TS 29.329.			•	_
Note: The AVP codes from 723 to 799 are reserved for TS 29.329.				_
Note: The AVP codes from 800 to 822 are reserved for TS 32.299.			OctetString	
Event				
SIP-Method			Grouped	
B25				
226 Content-Type				
B27 Content-Length				
829 Role-of-Node Enumerated 830 User-Session-Id UTF8String 831 Calling-Party-Address UTF8String 832 Called-Party-Address UTF8String 833 Time-Stamps Grouped 834 SIP-Request-Timestamp Time 835 SIP-Response-Timestamp Time 836 Application-Server UTF8String 837 Application-provided-called-party-address UTF8String 838 Inter-Operator-Identifier Grouped 839 Inter-Operator-Identifier UTF8String 840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Description UTF8String 845 SDP-Media-Description UTF8String 846 G-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Addre			Unsigned32	
830 User-Session-Id UTF8String 831 Calling-Party-Address UTF8String 832 Called-Party-Address UTF8String 833 Time-Stamps Grouped 834 SIP-Request-Timestamp Time 835 SIP-Response-Timestamp UTF8String 836 Application-Server UTF8String 837 Application-provided-called-party-address UTF8String 838 Inter-Operator-Identifier Grouped 839 Originating-IOI UTF8String 840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Description UTF8String 845 SDP-Media-Description UTF8String 846 CG-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Address Address 849 Authorized-CooS<	828	Content-Disposition	UTF8String	
831 Calling-Party-Address UTF8String 832 Called-Party-Address UTF8String 833 Time-Stamps Grouped 834 SIP-Request-Timestamp Time 835 SIP-Response-Timestamp Time 836 Application-Server UTF8String 837 Application-provided-called-party-address UTF8String 838 Inter-Operator-Identifier Grouped 839 Originating-IOI UTF8String 840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Name UTF8String 845 SDP-Media-Description UTF8String 846 CG-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Address Address 849 Authorized-QoS UTF8String 850 Application-Server-Information Grouped 851 Trunk-Group-Id UTF8String 852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 855 Service				
B32 Called-Party-Address UTF8String B33 Time-Stamps Grouped B34 SIP-Request-Timestamp Time B35 SIP-Response-Timestamp Time B36 Application-Server UTF8String B37 Application-provided-called-party-address UTF8String B38 Inter-Operator-Identifier Grouped B39 Originating-IOI UTF8String B40 Terminating-IOI UTF8String B41 IMS-Charging-Identifier UTF8String B42 SDP-Session-Description UTF8String B43 SDP-Media-Component Grouped B44 SDP-Media-Name UTF8String B45 SDP-Media-Name UTF8String B46 CG-Address Address B47 GGSN-Address Address B48 Served-Party-IP-Address Address B49 Authorized-QoS UTF8String B50 Application-Server-Information Grouped B51 Trunk-Group-Id Grouped B52 Incoming-Trunk-Group-Id UTF8String B53 Outgoing-Trunk-Group-Id UTF8String B55 Service-Id UTF8String B56 Associated-URI UTF8String B57 Charged-Party UTF8String B58 PoC-Group-Name UTF8String B59 PoC-Group-Name UTF8String B50 Grouped B51 Grouped UTF8String B59 PoC-Group-Name UTF8String B50 Gouped UTF8String B50 Gause Grouped B51 Grouped UTF8String B58 Grouped UTF8String B59 PoC-Group-Name UTF8String B60 Cause Grouped B70 Grouped UTF8String B60 Cause Grouped UTF8String B60 Cause Grouped B60 Cause Grouped UTF8String B60 Cause Grouped B60 Cause Grouped UTF8String B61 Grouped UTF8String UTF8String B62 Grouped UTF8String UTF8String B60 Cause Grouped UTF8String UTF8String B60 Cause UTF8String UTF8String UTF8String UT				
B33 Time-Stamps Grouped				
834 SIP-Request-Timestamp Time 836 SIP-Response-Timestamp Time 836 Application-Server UTF8String 837 Application-provided-called-party-address UTF8String 838 Inter-Operator-Identifier Grouped 839 Originating-IOI UTF8String 840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Name UTF8String 845 SDP-Media-Name UTF8String 846 CG-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Address Address 849 Authorized-QoS UTF8String 850 Application-Server-Information Grouped 851 Trunk-Group-Id UTF8String 852 Incoming-Trunk-Group-Id UTF8String 853 Bearer-Service				_
835 SIP-Response-Timestamp Time 836 Application-Server UTF8String 837 Application-provided-called-party-address UTF8String 838 Inter-Operator-Identifier Grouped 839 Originating-IOI UTF8String 840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Description UTF8String 845 SDP-Media-Description UTF8String 846 CG-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Address Address 849 Authorized-QoS UTF8String 850 Application-Server-Information Grouped 851 Trunk-Group-Id UTF8String 852 Incoming-Trunk-Group-Id UTF8String 853 Device-Id UTF8String 855 Service-Id <td></td> <td></td> <td></td> <td>_</td>				_
B36 Application-Server UTF8String B37 Application-provided-called-party-address UTF8String B38 Inter-Operator-Identifier Grouped B39 Originating-IOI UTF8String B40 Terminating-IOI UTF8String B41 IMS-Charging-Identifier UTF8String B42 SDP-Session-Description UTF8String B43 SDP-Media-Component Grouped B44 SDP-Media-Name UTF8String B45 SDP-Media-Description UTF8String B46 CG-Address Address B47 GGSN-Address Address B48 Served-Party-IP-Address Address B48 Served-Party-IP-Address Address B49 Authorized-QoS UTF8String B50 Application-Server-Information Grouped B51 Trunk-Group-Id UTF8String B52 Incoming-Trunk-Group-Id UTF8String B53 Service-Id UTF8String B55 Service-Id UTF8String B56 Associated-URI UTF8String B57 Charged-Party UTF8String B58 PoC-Controlling-Address UTF8String B59 PoC-Group-Name UTF8String B59 PoC-Group-Name UTF8String B59 PoC-Group-Name UTF8String B59 PoC-Group-Name UTF8String B50 Cause Grouped B50 Grouped UTF8String B50 Cause Grouped B51 UTF8String B50 Cause Grouped B51 UTF8String B51 UTF8String B52 PoC-Group-Name UTF8String B50 Cause Grouped B51 UTF8String UTF8String B51 UTF8String UTF8String B52 UTF8String UTF8String B53 PoC-Group-Name UTF8String B54 UTF8String UTF8String B55 Cause Grouped B55 Grouped UTF8String B56 Cause Grouped UTF8String B57 Cause Grouped UTF8String B58 PoC-Group-Name UTF8String B59 PoC-Group-Name UTF8String B50 Cause Grouped UTF8String B51 Cause Grouped UTF8String B52 Cause Grouped UTF8String B53 Cause Grouped UTF8String				_
Ray Application-provided-called-party-address UTF8String				 -
B38 Inter-Operator-Identifier Grouped				_
839 Originating-IOI UTF8String 840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Name UTF8String 845 SDP-Media-Description UTF8String 846 CG-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Address Address 849 Authorized-QoS UTF8String 850 Application-Server-Information Grouped 851 Trunk-Group-Id Grouped 852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String <td></td> <td></td> <td></td> <td></td>				
840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Name UTF8String 845 SDP-Media-Description UTF8String 846 CG-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Address Address 849 Authorized-QoS UTF8String 850 Application-Server-Information Grouped 851 Trunk-Group-Id Grouped 852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Group-Name UTF8String				
841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Name UTF8String 845 SDP-Media-Description UTF8String 846 CG-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Address Address 849 Authorized-QoS UTF8String 850 Application-Server-Information Grouped 851 Trunk-Group-Id UTF8String 852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Group-Name UTF8String 860 Cause Grouped				
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844SDP-Media-NameUTF8String845SDP-Media-DescriptionUTF8String846CG-AddressAddress847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped	842	SDP-Session-Description	UTF8String	32.299 [5]
845SDP-Media-DescriptionUTF8String846CG-AddressAddress847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				
846CG-AddressAddress847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdUTF8String852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				_
847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				_
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851 Trunk-Group-Id Grouped 852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Group-Name UTF8String 860 Cause Grouped				┥
852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Group-Name UTF8String 860 Cause Grouped				
853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Group-Name UTF8String 860 Cause Grouped				
854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Group-Name UTF8String 860 Cause Grouped				
855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String 859 PoC-Group-Name UTF8String 860 Cause Grouped				
856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				┪
857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				┪
858PoC-Controlling-AddressUTF8String859PoC-Group-NameUTF8String860CauseGrouped				7
860 Cause Grouped			UTF8String	<u> </u>
	859	PoC-Group-Name		
861 Cause-Code Integer32				
	861	Cause-Code	Integer32	

	T		1
862	Node-Functionality	Enumerated	
863	Service-Specific-Data	UTF8String	1
	Originator	Enumerated	†
	PS-Furnish-Charging-Information	Grouped	+
			4
	PS-Free-Format-Data	OctetString	↓
	PS-Append-Free-Format-Data	Enumerated	
868	Time-Quota-Threshold	Unsigned32	1
	Volume-Quota-Threshold	Unsigned32	7
	Trigger-Type	Enumerated	†
			4
	Quota-Holding-Time	Unsigned32	
	Reporting-Reason	Enumerated	
873	Service-Information	Grouped	
874	PS-Information PS-Information	Grouped	7
	Reserved	-	†
		Crawnad	+
	IMS-Information	Grouped	4
	MMS-Information	Grouped	1
878	LCS-Information	Grouped	
879	PoC-Information	Grouped	Ī
880	MBMS-Information	Grouped	7
	Quota-Consumption-Time	Unsigned32	†
		Enumerated	+
	Media-Initiator-Flag		+
	PoC-Server-Role	Enumerated	4
884	PoC-Session-Type	Enumerated	1
	Number-Of-Participants	Unsigned32	1
	Originator-Address	Grouped	
	Participants-Involved	UTF8String	1
	Expires	Unsigned32	†
			+
	Message-Body	Grouped	4
	Reserved	-	1
891	Reserved	-	1
892	Reserved	-	
893	Reserved	-	Ī
	Reserved	-	Ť
	Reserved	_	†
		_	+
	Reserved	-	4
	Address-Data	UTF8String	<u> </u>
	Address-Domain	Grouped	
899	Address-Type	Enumerated	
900	TMGI	OctectString	
	Required-MBMS-Bearer-Capabilities	UTF8String	†
	MBMS-StartStop-Indication	Enumerated	†
			4
	MBMS-Service-Area	OctectString	4
	MBMS-Session-Duration	Unsigned32	1
	Alternative-APN	UTF8String	1
906	MBMS-Service-Type	Enumerated	
			7
907	11VIDIVIS-2G-3G-111QICATOI	Enumerated	
	MBMS-2G-3G-Indicator MBMS-Session-Identity	Enumerated OctetString	1
908	MBMS-Session-Identity	OctetString	1
908 909	MBMS-Session-Identity RAI	OctetString UTF8String	- - -
908 909 910	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info	OctetString UTF8String OctetString	- - -
908 909 910 911	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer	OctetString UTF8String OctetString Unsigned32	
908 909 910 911	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info	OctetString UTF8String OctetString	29.061
908 909 910 911 912	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer MBMS-Session-Identity-Repetition-Number	OctetString UTF8String OctetString Unsigned32 Unsigned32	_
908 909 910 911 912 913	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer MBMS-Session-Identity-Repetition-Number MBMS-Required-QoS	OctetString UTF8String OctetString Unsigned32 Unsigned32 UTF8String	29.061 [13]
908 909 910 911 912 913 914	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer MBMS-Session-Identity-Repetition-Number MBMS-Required-QoS MBMS-Counting-Information	OctetString UTF8String OctetString Unsigned32 Unsigned32 UTF8String Enumerated	_
908 909 910 911 912 913 914 915	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer MBMS-Session-Identity-Repetition-Number MBMS-Required-QoS MBMS-Counting-Information MBMS-User-Data-Mode-Indication	OctetString UTF8String OctetString Unsigned32 Unsigned32 UTF8String Enumerated Enumerated	_
908 909 910 911 912 913 914 915 916	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer MBMS-Session-Identity-Repetition-Number MBMS-Required-QoS MBMS-Counting-Information MBMS-User-Data-Mode-Indication MBMS-GGSN-Address	OctetString UTF8String OctetString Unsigned32 Unsigned32 UTF8String Enumerated Enumerated UTF8String	_
908 909 910 911 912 913 914 915 916 917	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer MBMS-Session-Identity-Repetition-Number MBMS-Required-QoS MBMS-Counting-Information MBMS-User-Data-Mode-Indication MBMS-GGSN-Address MBMS-GGSN-IPv6-Address	OctetString UTF8String OctetString Unsigned32 Unsigned32 UTF8String Enumerated Enumerated UTF8String UTF8String	_
908 909 910 911 912 913 914 915 916 917 918	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer MBMS-Session-Identity-Repetition-Number MBMS-Required-QoS MBMS-Counting-Information MBMS-User-Data-Mode-Indication MBMS-GGSN-Address MBMS-GGSN-IPv6-Address MBMS-BMSC-SSM-IP-Address	OctetString UTF8String OctetString Unsigned32 Unsigned32 UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String	_
908 909 910 911 912 913 914 915 916 917 918	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer MBMS-Session-Identity-Repetition-Number MBMS-Required-QoS MBMS-Counting-Information MBMS-User-Data-Mode-Indication MBMS-GGSN-Address MBMS-GGSN-IPv6-Address	OctetString UTF8String OctetString Unsigned32 Unsigned32 UTF8String Enumerated Enumerated UTF8String UTF8String	_
908 909 910 911 912 913 914 915 916 917 918 919	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer MBMS-Session-Identity-Repetition-Number MBMS-Required-QoS MBMS-Counting-Information MBMS-User-Data-Mode-Indication MBMS-GGSN-Address MBMS-GGSN-IPv6-Address MBMS-BMSC-SSM-IP-Address MBMS-BMSC-SSM-IPv6-Address	OctetString UTF8String OctetString Unsigned32 Unsigned32 UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String	_
908 909 910 911 912 913 914 915 916 917 918 919	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer MBMS-Session-Identity-Repetition-Number MBMS-Required-QoS MBMS-Counting-Information MBMS-User-Data-Mode-Indication MBMS-GGSN-Address MBMS-GGSN-IPv6-Address MBMS-BMSC-SSM-IP-Address MBMS-BMSC-SSM-IPv6-Address MBMS-BMSC-SSM-IPv6-Address MBMS-Flow-Identifier	OctetString UTF8String OctetString Unsigned32 Unsigned32 UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String OctetString	_
908 909 910 911 912 913 914 915 916 917 918 919 920	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer MBMS-Session-Identity-Repetition-Number MBMS-Required-QoS MBMS-Counting-Information MBMS-User-Data-Mode-Indication MBMS-GGSN-Address MBMS-GGSN-IPv6-Address MBMS-BMSC-SSM-IP-Address MBMS-BMSC-SSM-IPv6-Address MBMS-BMSC-SSM-IPv6-Address MBMS-Flow-Identifier CN-IP-Multicast-Distribution	OctetString UTF8String OctetString Unsigned32 Unsigned32 UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Enumerated UTF8String UTF8String UTF8String	_
908 909 910 911 912 913 914 915 916 917 918 919 920 921	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer MBMS-Session-Identity-Repetition-Number MBMS-Required-QoS MBMS-Counting-Information MBMS-User-Data-Mode-Indication MBMS-GGSN-Address MBMS-GGSN-IPv6-Address MBMS-BMSC-SSM-IP-Address MBMS-BMSC-SSM-IPv6-Address MBMS-Flow-Identifier CN-IP-Multicast-Distribution MBMS-HC-Indicator	OctetString UTF8String OctetString Unsigned32 Unsigned32 UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Enumerated UTF8String UTF8String UTF8String	_
908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer MBMS-Session-Identity-Repetition-Number MBMS-Required-QoS MBMS-Counting-Information MBMS-User-Data-Mode-Indication MBMS-GGSN-Address MBMS-GGSN-IPv6-Address MBMS-BMSC-SSM-IP-Address MBMS-BMSC-SSM-IPv6-Address MBMS-Flow-Identifier CN-IP-Multicast-Distribution MBMS-HC-Indicator MBMS-Access-Indicator	OctetString UTF8String OctetString Unsigned32 Unsigned32 UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated	_
908 909 910 911 912 913 914 915 916 917 918 920 921 922 923 924	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer MBMS-Session-Identity-Repetition-Number MBMS-Required-QoS MBMS-Counting-Information MBMS-User-Data-Mode-Indication MBMS-GGSN-Address MBMS-GGSN-IPv6-Address MBMS-BMSC-SSM-IP-Address MBMS-BMSC-SSM-IPv6-Address MBMS-Flow-Identifier CN-IP-Multicast-Distribution MBMS-HC-Indicator MBMS-Access-Indicator MBMS-GW-SSM-IP-Address	OctetString UTF8String OctetString Unsigned32 Unsigned32 UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String OctetString Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated OctetString	_
908 909 910 911 912 913 914 915 916 917 918 920 921 922 923 924	MBMS-Session-Identity RAI Additional-MBMS-Trace-Info MBMS-Time-To-Data-Transfer MBMS-Session-Identity-Repetition-Number MBMS-Required-QoS MBMS-Counting-Information MBMS-User-Data-Mode-Indication MBMS-GGSN-Address MBMS-GGSN-IPv6-Address MBMS-BMSC-SSM-IP-Address MBMS-BMSC-SSM-IPv6-Address MBMS-Flow-Identifier CN-IP-Multicast-Distribution MBMS-HC-Indicator MBMS-Access-Indicator	OctetString UTF8String OctetString Unsigned32 Unsigned32 UTF8String Enumerated Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated	_

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926 MBMS-BMSC-SSM-UDP-Port	OctetSt		
927 MBMS-GW-UDP-Port	OctetSt	ring	
928 MBMS-GW-UDP-Port-Indicator	Enumer	ated	
929 MBMS-Data-Transfer-Start	Unsigne		
930 MBMS-Data-Transfer-Stop	Unsigne		
931 MBMS-Flags	Unsigne		
932 Restart-Counter	Unsigne		
933 Diagnostic-Info	Unsigne		
934 MBMS-Cell-List	OctetSt	ring	
Note: The AVP codes from 935 to 999 are reserved for TS 29.061	•		
1000 Bearer-Usage	Enumerated		
1001 Charging-Rule-Install	Grouped		
1002 Charging-Rule-Remove	Grouped		
1003 Charging-Rule-Definition	Grouped		
1004 Charging-Rule-Base-Name	UTF8String		
1005 Charging-Rule-Name	OctetString		
1006 Event-Trigger	Enumerated		
1007 Metering-Method	Enumerated		
1008 Offline			
	Enumerated		
1009 Online	Enumerated		
1010 Precedence	Unsigned32		
1011 Reporting-Level	Enumerated		
1012 TFT-Filter	IPFilterRule		
1013 TFT-Packet-Filter-Information	Grouped		
1014 ToS-Traffic-Class	OctetString		
1016 QoS-Information	Grouped		
1018 Charging-Rule-Report	Grouped		
1019 PCC-Rule-Status	Enumerated		
1020 Bearer-Identifier	OctetString		
1021 Bearer-Operation	Enumerated		
1022 Access-Network-Charging-Identifier-Gx			
	Grouped		
1023 Bearer-Control-Mode	Enumerated		
1024 Network-Request-Support	Enumerated		
1025 Guaranteed-Bitrate-DL	Unsigned32		
1026 Guaranteed-Bitrate-UL	Unsigned32		
1027 IP-CAN-Type	Enumerated		
1028 QoS-Class-Identifier	Enumerated		
1029 QoS-Negotiation	Enumerated	29.212 [19]	
1030 QoS-Upgrade	Enumerated		
1031 Rule-Failure-Code	Enumerated		
1032 RAT-Type	Enumerated		
1033 Event-Report-Indication	Grouped		
1034 Allocation-Retention-Priority	Grouped		
1035 CoA-IP-Address	Address		
1036 Tunnel-Header-Filter	IPFilterRule		
1037 Tunnel-Header-Length	Unsigned32		
1038 Tunnel-Information	Grouped		
1039 CoA-Information	Grouped		
1040 APN-Aggregate-Max-Bitrate-DL	Unsigned32		
1041 APN-Aggregate-Max-Bitrate-UL	Unsigned32		
1042 Revalidation-Time	Time		
1043 Rule-Activation-Time	Time		
1044 Rule-DeActivation-Time	Time		
1045 Session-Release-Cause	Enumerated		
1046 Priority-Level			
	Unsigned32		
1047 Pre-emption-Capability	Enumerated		
1048 Pre-emption-Vulnerability	Enumerated		
1049 Default-EPS-Bearer-QoS	Grouped		
1050 AN-GW-Address	Address		
1051 QoS-Rule-Install	Grouped		
1052 QoS-Rule-Remove	Grouped		
1053 QoS-Rule-Definition	Grouped		
1054 QoS-Rule-Name	OctetString		
1055 QoS-Rule-Report	Grouped		
1056 Security-Parameter-Index	OctetString		
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4057 51 -11	0-4-404	1
1057 Flow-Label	OctetString	
1058 Flow-Information	Grouped IPFilterRule	
1059 Packet-Filter-Content 1060 Packet-Filter-Identifier	OctetString	
1000 Packet-Filter-Information	Grouped	
1062 Packet-Filter-Operation	Enumerated	
1063 Resource-Allocation-Notification	Enumerated	
1064 Session-Linking-Indicator	Enumerated	
1065 PDN-Connection-ID	OctetString	
1066 Monitoring-Key	OctetString	
1067 Usage-Monitoring-Information	Grouped	
1068 Usage-Monitoring-Level	Enumerated	
1069 Usage-Monitoring-Report	Enumerated	
1070 Usage-Monitoring-Support	Enumerated	
1071 CSG-Information-Reporting	Enumerated	
1072 Packet-Filter-Usage	Enumerated	
1073 Charging-Correlation-Indicator	Enumerated	
1074 QoS-Rule-Base-Name	UTF8String	
1075 Routing-Rule-Remove	Grouped	
1076 Routing-Rule-Definition	Grouped	
1077 Routing-Rule-Identifier	OctetString	
1078 Routing-Filter	Grouped	
1079 Routing-IP-Address 1080 Flow-Direction	Address Enumerated	
1080 Flow-Direction 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 Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212	Enumerated	
1100 Served-User-Identity	Groupe	
1100 Served-Oser-Identity	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	
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 Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	UTF8String	
1200 Domain-Name	UTF8String	
1200 Domain-Name 1201 Recipient-Address	Grouped	32.299 [5]
1201 Recipient-Address 1202 Submission-Time	Time	JZ.Z33 [J]
1202 Cubinission Time	TITLE	

1203	MM-Content-Type	Grouped	
1204	Type-Number	Enumerated	
1205	Additional-Type-Information	UTF8String	
	Content-Size	Unsigned32	
	Additional-Content-Information	Grouped	
	Addressee-Type	Enumerated	
	Priority	Enumerated	
	Message-ID	UTF8String	
	Message-Type	Enumerated	
	Message-Size	Unsigned32	
	Message-Class	Grouped	
	Class-Identifier	Enumerated	
	Token-Text	UTF8String	
	Delivery-Report-Requested	Enumerated	
	Adaptations	Enumerated	
	Applic-ID	UTF8String	
	Aux-Applic-Info	UTF8String	
	Content-Class	Enumerated	
	DRM-Content	Enumerated	
	Read-Reply-Report-Requested	Enumerated	
	Reply-Applic-ID	UTF8String	
	File-Repair-Supported	Enumerated	
	MBMS-User-Service-Type	Enumerated	
	Unit-Quota-Threshold	Unsigned32	
1227	PDP-Address	Address	
1228	SGSN-Address	Address	
1229	PoC-Session-Id	UTF8String	
1230	Deferred-Location-Even-Type	UTF8String	
1231	LCS-APN	UTF8String	
1232	LCS-Client-Id	Grouped	
	LCS-Client-Dialed-By-MS	UTF8String	
	LCS-Client-External-ID	UTF8String	
	LCS-Client-Name	Grouped	
	LCS-Data-Coding-Scheme	UTF8String	
	LCS-Format-Indicator	Enumerated	
	LCS-Name-String	UTF8String	
	LCS-Requestor-Id	Grouped	
	LCS-Requestor-Id-String	UTF8String	
12/11	LCS-Client-Type	Enumerated	
	Location-Estimate	OctetString	
	Location-Estimate-Type	Enumerated	
1243	Location Type		
	Location-Type	Grouped	
	Positioning-Data	UTF8String	
	Reserved	- -	
	PDP-Context-Type	Enumerated	
	MMBox-Storage-Requested	Enumerated	
	Service-Specific-Info	Grouped	
	Called-Asserted-Identity	UTF8String	
	Requested-Party-Address	UTF8String	
	PoC-User-Role	Grouped	
	PoC-User-Role-IDs	UTF8String	
	PoC-User-Role-info-Units	Enumerated	
	Talk-Burst-Exchange	Grouped	
1256	Service-Generic-Information	Grouped	
	Service-Specific-Type	Unsigned32	
1258	Event-Charging-TimeStamp	Time	
	Participant-Access-Priority	Enumerated	
	Participant-Group	Grouped	
	PoC-Change-Conditions	Enumerated	
	PoC-Change-Time	Time	
	Access-Network-Information	OctetString	
	Trigger	Grouped	
	Base-Time-Interval	Unsigned32	
	Envelope	Grouped	
	Envelope-End-Time	Time	
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1268 Envelope-Reporting	Enumerated	
1269 Envelope-Start-Time	Time	
1270 Time-Quota-Mechanism	Grouped	
1271 Time-Quota-Type	Enumerated	
1272 Early-Media-Description	Grouped	
1273 SDP-TimeStamps	Grouped	
1274 SDP-Offer-Timestamp	Time	
1275 SDP-Answer-Timestamp	Time	
1276 AF-Correlation-Information	Grouped	
1277 PoC-Session-Initiation-type	Enumerated	
1278 Offline-Charging	Grouped	
1279 User-Participating-Type	Enumerated	
1280 Alternate-Charged-Party-Address	UTF8String	
1281 IMS-Communication-Service-Identifier	UTF8String	
1282 Number-Of-Received-Talk-Bursts	Unsigned32	
1283 Number-Of-Talk-Bursts	Unsigned32	
1284 Received-Talk-Burst-Time	Unsigned32	
1285 Received-Talk-Burst-Volume	Unsigned32	
1286 Talk-Burst-Time	Unsigned32	
1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
Note: The AVP codes from 1289 to 1299 are reserved for TS 32.299		Г
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 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code	Time Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size	Time Unsigned32 Unsigned64	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node	Time Unsigned32 Unsigned64 Enumerated	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information	Time Unsigned32 Unsigned64 Enumerated Grouped	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address	Time Unsigned32 Unsigned64 Enumerated Grouped Address	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229.	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Grouped	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Grouped	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Grouped Unstance Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Grouped Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Unsigne	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UnF8String UTF8String UTF8String Unsigned32 Unsigned32	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString	32.299 [5]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped	32.299 [5] 29.272 [21]
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN-GERAN-Authentication-Info	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned4 UTF8String UTF8String UTF8String Unsigned32 Unsigned32 Unsigned32 OctetString Grouped Grouped	
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN-GERAN-Authentication-Info	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String UTF8String UTF8String Unsigned32 Unsigned32 Unsigned32 Unsigned32 OctetString Grouped Unsigned32	
1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN-GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString	
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1312 API-Invocation-Timestamp 1313 API-Result-Code 1314 API-Size 1315 API-Network-Service-Node 1316 Exposure-Function-API-Information 1317 SCEF-Address 1318 TLTRI 1319 TTRI 1320 3GPP-OC-Specific-Reduction 1321 3GPP-OC-Rating-Group 1322 3GPP-OC-Request-Type 1323 VoLTE-Information Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229. 1400 Subscription-Data 1401 Terminal-Information 1402 IMEI 1403 Software-Version 1404 QoS-Subscribed 1405 ULR-Flags 1406 ULA-Flags 1407 Visited PLMN Id 1408 Requested-EUTRAN-Authentication-Info 1409 Requested-UTRAN- GERAN-Authentication-Info 1410 Number-Of-Requested-Vectors 1411 Re-Synchronization-Info 1412 Immediate-Response-Preferred 1413 Authentication-Info 1414 E-UTRAN-Vector	Time Unsigned32 Unsigned64 Enumerated Grouped Address Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Enumerated Grouped Unsigned32 Enumerated Grouped UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 OctetString Grouped Unsigned32 OctetString Unsigned32 OctetString Unsigned32 OctetString	

1418	HPLMN-ODB	Enumerated	
1419	Item-Number	Unsigned32	
1420	Cancellation-Type	Enumerated	
1421	DSR-Flags	Unsigned32	
1422	DSA-Flags	Unsigned32	
	Context-Identifier	Unsigned32	
	Subscriber-Status	Enumerated	
	Operator-Determined-Barring	Unsigned32	
	Access-Restriction-Data	Unsigned32	
	APN-OI-Replacement	UTF8String	
	All-APN-Configurations-Included-Indicator	Enumerated	
	APN-Configuration-Profile	Grouped	
	APN-Configuration	Grouped	
	EPS-Subscribed-QoS-Profile	Grouped	
	VPLMN-Dynamic-Address-Allowed	Enumerated	
	STN-SR	OctetString	
	Alert-Reason	Enumerated	
	AMBR	Grouped	
	CSG-Subscription-Data	Grouped	
		Unsigned32	
	CSG-Id PDN-GW-Allocation-Type	Enumerated	
	Expiration-Date	Time	
	RAT-Frequency-Selection-Priority-ID	Unsigned32	
	IDA-Flags	Unsigned32	
	PUA-Flags	Unsigned32	
	NOR-Flags	Unsigned32	
	User-Id	UTF8String	
	Equipment-Status Equipment-Status	Enumerated	
	Regional-Subscription-Zone-Code	OctetString	
	RAND	OctetString	
	XRES	OctetString	
	AUTN	OctetString	
	KASME	OctetString	
	Reserved	-	
	Trace-Collection-Entity	Address	
1453	Kc	OctetString	
1454	SRES	OctetString	
1455	Reserved	-	
1456	PDN-Type	Enumerated	
1457	Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated	
	Trace-Data	Grouped	
	Trace-Reference	OctetString	
	Reserved	-	
	Reserved	-	
	Trace-Depth	Enumerated	
	Trace-NE-Type-List	OctetString	
	Trace-Interface-List	OctetString	
	Trace-Event-List	OctetString	
	OMC-Id	OctetString	
	GPRS-Subscription-Data	Grouped	
	Complete-Data-List-Included-Indicator	Enumerated	
	PDP-Context	Grouped	
	PDP-Type	OctetString OctotString	
	3GPP2-MEID	OctetString	
	Specific-APN-Info	Grouped	
	LCS-Info	Grouped	
	GMLC-Number	OctetString	
	LCS-PrivacyException	Grouped	
	SS-Code	OctetString	
	SS-Status	OctetString	
	Notification-To-UE-User	Enumerated	
	External-Client External Client	Grouped	
	Client-Identity	OctetString	
	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		
1439 0561-5tate	Enumerateu		
4500 Non 2CDD Hoor Data	C		
1500 Non-3GPP-User-Data	Grouped		
1501 Non-3GPP-IP-Access	Enumerated		
1502 Non-3GPP-IP-Access-APN	Enumerated		
1503 AN-Trusted	Enumerated		
1504 ANID	UTF8String		
1505 Trace-Info	Grouped		
1506 MIP-FA-RK	OctetString		
1507 MIP-FA-RK-SPI	Unsigned32		
1508 PPR-Flags	Unsigned32		
1509 WLAN-Identifier	Grouped		
1510 TWAN-Access-Info	Grouped		
1511 Access-Authorization-Flags	Unsigned32		
1512 TWAN-Default-APN-Context-Id	Unsigned32		
1513 Reserved	-		
1514 Reserved	-	29.273 [20]	
1515 Reserved	-		
1516 Full-Network-Name	OctetString		
1517 Short-Network-Name	OctetString		
1518 AAA-Failure-Indication	Unsigned32		
1519 Transport-Access-Type	Enumerated		
1520 DER-Flags	Unsigned32		
1521 DEA-Flags	Unsigned32		
1522 RAR-Flags	Unsigned32		
1523 DER-S6b-Flags	Unsigned32		
1524 SSID	UTF8String		
1525 HESSID	UTF8String		
1526 Access-Network-Info	Grouped		
1527 TWAN-Connection-Mode	Unsigned32		
1528 TWAN-Connectivity-Parameters	Grouped		
1529 Connectivity-Flags	Unsigned32		
1530 TWAN-PCO	OctetSt		
1531 TWAG-CP-Address	Addre		
1532 TWAG-UP-Address	UTF8S		
1533 TWAN-S2a-Failure-Cause	Unsigne		
1534 SM-Back-Off-Timer	Unsigne		
1535 WLCP-Key	OctetSt		
318 3GPP-AAA-Server-Name	Diameterl		
1536 Origination-Time-Stamp	Unsigne		
1537 Maximum-Wait-Time	Unsigne		
1538 Emergency-Services	Unsigne		
1539 AAR-Flags	Unsigne		
1540 IMEI-Check-In-VPLMN-Result	Unsigne		
1541 ERP-Authorization	Unsigne	ea32	
Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.27			
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3	3GPP TS 29.234 and is	now defined in 30	SPP TS
29.273 from Rel-12.	T		
1600 MME-Location-Information	Group	ed	

1901 SSSN-Location-information	ACOA COON Location Information	0	
1903 Tracking-Area-Identity	1601 SGSN-Location-Information	Grouped	1
1906 Cell-Global-Identity			1
1805 Routing-Area-Identity			†
1606 Location-Area-Identity OctelString 1607 Service-Area-Identity OctelString 1608 Geographical-Information OctelString 1609 Geodetic-Information OctelString 1610 Current-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 SIPTO-Dermission Enumerated 1614 Repro-Diagnostic Enumerated 1614 Repro-Diagnostic Enumerated 1615 LE-SRV-C-Capability Enumerated 1616 RPS-Priority Unsigned32 1616 Repro-Diagnostic Enumerated 1616 RPS-Priority Unsigned32 1617 VPLIM-LIP-Allowed Enumerated 1618 LIP-A-Permission Enumerated 1618 LIP-A-Permission Enumerated 1618 Subscribed-Periodic-RAU-TAU-Timer Unsigned32 1619 Subscribed-Periodic-RAU-TAU-Timer Unsigned32 1622 Ext-PDP-Type OctelString 1622 Ext-PDP-Type OctelString 1623 Ext-PDP-Type OctelString 1623 Ext-PDP-Type OctelString 1623 Ext-PDP-Type OctelString 1624 Ext-PDP-Type OctelString 1625 Ext-PDP-Type OctelString 1624 Ext-PDP-Type OctelString 1625 Ext-PDP-Type OctelString 1625 Ext-PDP-Type OctelString 1624 Ext-PDP-Type OctelString 1625 Ext-PDP-Type OctelString 1625 Ext-PDP-Type OctelString 1625 Ext-PDP-Type OctelString 1625 Ext-PDP-Type OctelString 1626 October 1626 October			1
1608 Geographical-Information			1
1609 Geodetic-Information	1607 Service-Area-Identity		
1610 Current-Location-Information Unsigned32 1612 Active-APN Grouped 1613 SIPTO-Permission Enumerated 1614 Error-Diagnostic Enumerated 1614 Error-Diagnostic Enumerated 1615 UE-SRVCC-Capability Enumerated 1616 MPS-Priority Unsigned32 1617 YPLMN-LIPA-Allowed Enumerated 1618 URS-Priority Unsigned32 1619 Unsigned32 Unsigned32 1619 Unsigned32 Unsigned32 1619 Unsigned32 Unsigned32 1620 Ext.PDP-Type OctetString 1621 Ext.PDP-Address Address 1622 MDT-Onfiguration Grouped 1623 Job-Type Enumerated 1624 Area-Scope Grouped 1625 Ust.Of-Measurements Unsigned32 1626 Report-Interval Enumerated 1629 Event-ThresholdRSRP Unsigned32 1627 Report-Interval Enumerated 1628 Report-Interval Enumerated 1629 Event-ThresholdRSRC Unsigned32 1629 Event-ThresholdRSRC Unsigned32 1631 Logging-Interval Enumerated 1632 Event-ThresholdRSRC Unsigned32 1631 Logging-Interval Enumerated 1632 Event-ThresholdRSRC Unsigned32 1633 Event-ThresholdRSRC Unsigned32 1634 MDT-User-Consent Enumerated 1632 Event-ThresholdRSRC Unsigned32 1633 PUR-Flags Unsigned32 1634 MDT-User-Consent Enumerated 1635 PUR-Flags Unsigned32 1636 Unsigned32 Unsigned32 1637 Fquiratent-PUMN-List Grouped 1638 CUR-Flags Unsigned32 1640 UVA-Flags Unsigned32 1650 Water-Time-Poine Grouped 1641 PURN-CGS-Subscription-Data Grouped 1642 City Competed 1643 MS-Register-Request Enumerated 1644 Reserved Enumerated 1655 GMLC-Name DiameterIdentity 1656 Measurement-Period-LTE Enumerated 1657 GMLC-Name DiameterIdentity 1658 Measurement-Period-LTE Enumerated 1659 Measurement-Period-LTE Enumerated 1650 Measurement-Period-LTE Enumerated 1651 Collection-Period-RMM-UTS Enumerated 1652 Event-Threshold-Event-IT Enumerated 1653 MC-Collection-Period-RMM-UTS Enumerated 1654 Subscription-Data Enumerated			1
1611 Age-OPL ocation-Information		· · · · · · · · · · · · · · · · · · ·	<u> </u>
1612 Active-APN			
1613 SIPTO-Permission			1
Enumerated			1
1615 LE-SRVCC-Capability			1
1616 MPS-Priority			1
1617 VPLMN-LIPA-Allowed			†
1619 Subscribed-Periodic-RAU-TAU-Timer			1
1620 Ext-PDP-Type			1
1621 Ext-PDP-Address	1619 Subscribed-Periodic-RAU-TAU-Timer	Unsigned32	Ī
1623 MDT-Configuration			
1623 Job-Type			1
1624 Area-Scope Grouped			1
1625 List-Of-Measurements			1
Report-Interval			4
Enumerated Enumerated Enumerated			1
1628 Report-Amount			1
1629 Event-ThresholdRSRP			1
1630 Event-ThresholdRSRQ			1
1631 Logging-Interval			†
1632 Logging-Duration			†
1633 Relay-Node-Indicator			
1634 MD1-User-Consent		Enumerated	-
1636 Subscribed-VSRVCC Enumerated 1637 Equivalent-PLMN-List Grouped 1638 CLR-Flags Unsigned32 1639 UVR-Flags Unsigned32 1640 UVA-Flags Unsigned32 1641 VPLMN-CSG-Subscription-Data Grouped 1642 Time-Zone UTF8string 1643 A-MSISDN OctetString 1644 Reserved - 1645 MME-Number-for-MT-SMS OctetString 1646 Reserved - 1647 Reserved - 1648 SMS-Register-Request Enumerated 1649 Local-Time-Zone Grouped 1650 Daylight-Saving-Time Enumerated 1651 GMLC-Info Grouped 1652 GMLC-Info Grouped 1653 GMLC-Realm DiameterIdentity 1653 Mell-C-Info Grouped 1654 Subscription-Data-Flags Unsigned32 1655 Measurement-Period-UMTS	1634 MDT-User-Consent	Enumerated	[21]
Equivalent-PLMN-List Grouped 1638 CLR-Flags Unsigned32 1639 UVR-Flags Unsigned32 1640 UVR-Flags Unsigned32 1641 VPLMN-CSG-Subscription-Data Grouped 1642 Time-Zone UTF8String 1643 A-MSISDN OcteString 1644 Reserved 1645 MME-Number-for-MT-SMS OcteString 1646 Reserved 1647 Reserved 1648 SMS-Register-Request Enumerated 1649 Local-Time-Zone Grouped 1650 Daylight-Saving-Time Enumerated 1651 GMLC-Info Grouped 1652 GMLC-Name DiameterIdentity 1653 GMLC-Realm DiameterIdentity 1654 Subscription-Data-Flags Unsigned32 1655 Measurement-Period-LTE Enumerated 1656 Measurement-Period-RRM-LTE Enumerated 1657 Collection-Period-RRM-UMTS Enumerated 1658 Oscibioning-Method OctelString 1661 Event-Threshold-Event-11 Integer32 1662 Event-Threshold-Event-11 Integer32 1663 Resorvation-Priority Unsigned32 1664 SGs-MME-Identity UTF8String 1664 SGs-MME-Identity UTF8String 1664 SGs-MME-Identity UTF8String 1665 Oscibioning-Priority UTF8String 1666 Resortation-Priority UTF8String 1667 Collection-Priority UTF8String 1668 Resortation-Priority UTF8String 1668 Resortation-Priority UTF8String 1668 Resortation-Priority UTF8String 1668 Resortation-Priority UTF8String 1664 Resortation-Priority UTF8String UTF8String 1665 Resortation-Priority UTF8String U]
1638 CLR-Flags			1
1639 UVR-Flags			
1640 UVA-Flags			<u> </u>
1641 VPLMN-CSG-Subscription-Data Grouped 1642 Time-Zone UTF8String 1643 A-MSISDN OctetString 1644 Reserved - 1645 MME-Number-for-MT-SMS OctetString 1646 Reserved - 1647 Reserved - 1648 SMS-Register-Request Enumerated 1649 Local-Time-Zone Grouped 1650 Daylight-Saving-Time Enumerated 1651 GMLC-Info Grouped 1652 GMLC-Name DiameterIdentity 1653 GMLC-Realm DiameterIdentity 1654 Subscription-Data-Flags Unsigned32 1655 Measurement-Period-LTE Enumerated 1656 Measurement-Period-UMTS Enumerated 1657 Collection-Period-RRM-LTE Enumerated 1658 Collection-Period-RRM-LTE Enumerated 1659 Positioning-Method OctetString 1660 Measurement-Quantity OctetString 1661 Event-Threshold-Event-11 Integer32 1662 Restoration-Priority Unsigned32 1664 SGs-MME-Identity UTF8String 1664 SGs-MME-Identity UTF8String 1665 Uniform-Priority Unsigned32 1666 SGs-MME-Identity UTF8String 1667 Vertical A-Vision Vision 1668 Collection-Priority Unsigned32 1669 Uniform-Priority Unsigned32 1669 Uniform-Priority UTF8String 1660 Uniform-Priority UTF8String 1661 Uniform-Priority UTF8String 1662 Uniform-Priority UTF8String 1664 Uniform-Priority UTF8String 1665 Uniform-Priority UTF8String 1666 Uniform-Priority UTF8String 1667 Uniform-Priority UTF8String 1668 Uniform-Priority UTF8String 1669 Uniform-Priority UTF8String 1660 Uniform-Priority UTF8String 1661 Uniform-Priority UTF8String 1662 Uniform-Priority UTF8String 1664 Uniform-Priority UTF8String 1665 Uniform-Priority UTF8String 1666 Uniform-Priority UTF8String 1667 Uniform-Priority Uniform-Priority UTF8String 1668 Uniform-Priority UTF8String 1669 Uniform-Priority UTF8String 1660 Uniform-Priority Uniform-Priority UTF8String 1661 Uniform-Priority UTF8String 1662 Uniform-Priority UTF8String 1663 Uniform-Priority			1
Time-Zone			1
1643 A-MSISDN			1
1644 Reserved -			1
1645MME-Number-for-MT-SMSOctetString1646Reserved-1647Reserved-1648SMS-Register-RequestEnumerated1649Local-Time-ZoneGrouped1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity1654Subscription-Data-FlagsUnsigned321655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String		-	†
1646 Reserved - 1647 Reserved - 1648 SMS-Register-Request Enumerated 1649 Local-Time-Zone Grouped 1650 Daylight-Saving-Time Enumerated 1651 GMLC-Info Grouped 1652 GMLC-Name DiameterIdentity 1653 GMLC-Realm DiameterIdentity 1654 Subscription-Data-Flags Unsigned32 1655 Measurement-Period-LTE Enumerated 1656 Measurement-Period-UMTS Enumerated 1657 Collection-Period-RRM-LTE Enumerated 1658 Collection-Period-RRM-UMTS Enumerated 1659 Positioning-Method OctetString 1660 Measurement-Quantity OctetString 1661 Event-Threshold-Event-1F Integer32 1662 Event-Threshold-Event-1I Integer32 1663 Restoration-Priority Unsigned32 1664 SGs-MME-Identity UTF8String		OctetString	†
1648SMS-Register-RequestEnumerated1649Local-Time-ZoneGrouped1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity1654Subscription-Data-FlagsUnsigned321655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String		-	1
1649 Local-Time-ZoneGrouped1650 Daylight-Saving-TimeEnumerated1651 GMLC-InfoGrouped1652 GMLC-NameDiameterIdentity1653 GMLC-RealmDiameterIdentity1654 Subscription-Data-FlagsUnsigned321655 Measurement-Period-LTEEnumerated1656 Measurement-Period-UMTSEnumerated1657 Collection-Period-RRM-LTEEnumerated1658 Collection-Period-RRM-UMTSEnumerated1659 Positioning-MethodOctetString1660 Measurement-QuantityOctetString1661 Event-Threshold-Event-1FInteger321662 Event-Threshold-Event-1IInteger321663 Restoration-PriorityUnsigned321664 SGs-MME-IdentityUTF8String	1647 Reserved	-	Ī
1650Daylight-Saving-TimeEnumerated1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity1654Subscription-Data-FlagsUnsigned321655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String		Enumerated	
1651GMLC-InfoGrouped1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity1654Subscription-Data-FlagsUnsigned321655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			<u> </u>
1652GMLC-NameDiameterIdentity1653GMLC-RealmDiameterIdentity1654Subscription-Data-FlagsUnsigned321655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			1
1653GMLC-RealmDiameterIdentity1654Subscription-Data-FlagsUnsigned321655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			1
1654Subscription-Data-FlagsUnsigned321655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			1
1655Measurement-Period-LTEEnumerated1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			1
1656Measurement-Period-UMTSEnumerated1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			1
1657Collection-Period-RRM-LTEEnumerated1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			+
1658Collection-Period-RRM-UMTSEnumerated1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String		1	†
1659Positioning-MethodOctetString1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			†
1660Measurement-QuantityOctetString1661Event-Threshold-Event-1FInteger321662Event-Threshold-Event-1IInteger321663Restoration-PriorityUnsigned321664SGs-MME-IdentityUTF8String			†
1661 Event-Threshold-Event-1FInteger321662 Event-Threshold-Event-1IInteger321663 Restoration-PriorityUnsigned321664 SGs-MME-IdentityUTF8String			†
1662 Event-Threshold-Event-11Integer321663 Restoration-PriorityUnsigned321664 SGs-MME-IdentityUTF8String			†
1663 Restoration-PriorityUnsigned321664 SGs-MME-IdentityUTF8String			†
1664 SGs-MME-Identity UTF8String			1
1665 SIPTO-Local-Network-Permission Unsigned32	1664 SGs-MME-Identity		
	1665 SIPTO-Local-Network-Permission	Unsigned32	

	_	
1666 Coupled-Node-Diameter-ID	DiameterIdentity	<u> </u>
1667 WLAN-offloadability	Grouped	
1668 WLAN-offloadability-EUTRAN	Unsigned32	
1669 WLAN-offloadability-UTRAN	Unsigned32	
1670 Reset-ID	OctetString	<u> </u>
1671 MDT-Allowed-PLMN-Id	OctetString	<u> </u>
1672 Adjacent-PLMNs	Grouped	
1673 Adjacent-Access-Restriction-Data	Grouped	<u>_</u>
1674 DL-Buffering-Suggested-Packet-Count	Integer32	<u> </u>
1675 IMSI-Group-Id	Grouped	<u> </u>
1676 Group-Service-Id	Unsigned32	1
1677 Group-PLMN-Id	OctetString	
1678 Local-Group-Id	OctetString	
1679 AIR-Flags	Unsigned32	
1680 UE-Usage-Type	Unsigned32	
1681 Non-IP-PDN-Type-Indicator	Enumerated	
1682 Non-IP-Data-Delivery-Mechanism	Unsigned32	
1683 Additional-Context-Identifier	Unsigned32	7
1684 SCEF-Realm	DiameterIdentity	7
1685 Subscription-Data-Deletion	Grouped	7
1686 Preferred-Data-Mode	Unsigned32	1
1687 Emergency-Info	Grouped	1
1688 V2X-Subscription-Data	Grouped	1
1689 V2X-Permission	Unsigned32	1
1690 PDN-Connection-Continuity	Unsigned32	7
1691 eDRX-Cycle-Length	Grouped	†
1692 eDRX-Cycle-Length-Value	OctetString	†
1693 UE-PC5-AMBR	Unsigned32	†
1694 MBSFN-Area	Grouped	†
1695 MBSFN-Area-ID	Unsigned32	†
1696 Carrier-Frequency	Unsigned32	†
1697 RDS-Indicator	Enumerated	+
1698 Service-Gap-Time	Unsigned32	+
1699 Aerial-UE-Subscription-Information	Unsigned32	
1700 Broadcast-Location-Assistance-Data-Types	Unsigned64	
1701 Paging-Time-Window	Grouped	
1701 Paging-Time-Window	Unsigned32	+
1703 Paging-Time-Window-Length	OctetString	+
1704 Core-Network-Restrictions	Unsigned32	
1705 eDRX-Related-RAT	Grouped	†
1706 Interworking-5GS-Indicator	Enumerated	+
1700 Interworking-3G3-indicator	Enumerated	+
1707 Ethernet-Pon-Type-Indicator		+
1709 IAB-Operation-Permission	Unsigned32 Enumerated	+
1710 V2X-Subscription-Data-Nr		+
	Grouped	4
1711 UE-PC5-QoS	Grouped	4
1712 PC5-QoS-Flow	Grouped	+
1713 5QI	Integer32	4
1714 PC5-Flow-Bitrates	Grouped	4
1715 Guaranteed-Flow-Bitrates	Integer32	4
1716 Maximum-Flow-Bitrates	Integer32	4
1717 PC5-Range	Integer32	4
1718 PC5-Link-AMBR	Integer32	
Note: The AVP codes from 1719 to 1799 are reserved for TS 29.272.		
2000 SMS-Information	Grouped	4
2001 Data-Coding-Scheme	Integer32	
2002 Destination-Interface	Grouped	
2003 Interface-Id	UTF8String	
2004 Interface-Port	UTF8String	1
2005 Interface-Text	UTF8String	32.299 [5]
2006 Interface-Type	Enumerated	
2007 SM-Message-Type	Enumerated	
2008 Originating-SCCP-Address	Address	
2009 Originator-Interface	Grouped	
2010 Recipient-SCCP-Address	Address	
	· · · · · · · · · · · · · · · · · · ·	

2011 Raply-Path-Requested			1
2013 SM-Protocol-ID			1
2014 SM-Status			1
2015 SM-User-Data-Header	2013 SM-Protocol-ID	OctetString	
2015 SM-User-Data-Header	2014 SM-Status	OctetString	Ī
2016 SMS-Node	2015 SM-User-Data-Header		Ī
2017 SMSC-Address			†
2018 Client-Address Address 2019 Number-O-Messages-Sent Unsigned32 2020 Low-Balance-Incation Enumerated 2021 Remaining-Balance Grouped 2022 Refund-Information OctetString 2023 Carrier-Select-Routing-Information UTF6String 2023 Carrier-Select-Routing-Information UTF6String 2024 Number-Portability-Routing-Information UTF6String 2025 Recipient-Info Grouped 2027 Continuation UTF6String 2028 Recipient-Info Grouped 2027 Originator-Received-Address Grouped 2027 Originator-Received-Address 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-Information Grouped 2031 MMTel-Information Grouped 2033 Subscriber-Role Unsigned32 2033 Subscriber-Role Enumerated 2033 Subscriber-Role Enumerated 2034 Number-Or-Diversions Unsigned32 2036 SDPT-Type Enumerated 2037 Change-Condition Integer32 2036 SDPT-Type Enumerated 2037 Change-Condition Integer32 2038 Change-Condition Integer32 2038 Change-United 2039 Change-United 2039			†
2019 Number-of-Messages-Sent			+
2020 Low-Balance - Indication			-
			1
2022 Refund-Information			
2023 Carrier-Select-Routing-Information	2021 Remaining-Balance	Grouped	
2023 Carrier-Select-Routing-Information	2022 Refund-Information	OctetString	
2024 Number-Portability-Routing-Information	2023 Carrier-Select-Routing-Information		Ť
2025 PocEvent-Type			†
2026 Recipient-Info			+
2027 Originator-Received-Address Grouped 2028 Rocipient-Received-Address Grouped 2029 SM-Service-Type Enumerated 2030 MMTel-Information Grouped 2031 MMTel-Isservice-Type Unsigned32 2032 Service-Mode Unsigned32 2033 Subscriber-Role Unsigned32 2034 Sarvice-Mode Unsigned32 2035 Sasociated-Party-Address UrseString 2036 Sasociated-Party-Address UrseString 2036 Sasociated-Party-Address UrseString 2036 Sasociated-Party-Address UrseString 2036 Sasociated-Party-Address UrseString 2037 Change-Condition Integer32 2038 Change-Time Time 2039 Diagnostics Integer32 2040 Service-Data-Container Grouped 2041 Start-Time Time 2043 Time-First-Usage Time 2043 Time-First-Usage Time 2044 Time-Last-Usage Time 2045 Time-Usage Unsigned32 2046 Tiraffic-Data-Volumes Grouped 2047 Serving-Node-Type Enumerated 2048 Supplementary-Service Grouped 2049 Participant-Action-Type Enumerated 2050 PDN-Connection-Charging-ID Unsigned32 2051 Dynami-Address-Flag Enumerated 2052 Accumulated-Cost Grouped 2053 ACC-Cost-Information Grouped 2054 AcC-Information Grouped 2055 Acc-Cost-Information Grouped 2056 Current-Tariff Grouped 2057 Serving-Address-Flag Enumerated 2058 Rate-Element Grouped 2059 Call-Sequence-Number Grouped 2050 Call-Sequence-Number Grouped 2051 Dransin-Address-Flag Enumerated 2052 Call-Sequence-Number Grouped 2053 ACC-Call-Sequence-Number Grouped 2054 Roci-Request-Type Enumerated 2055 Call-Sequence-Number Grouped 2056 Call-Sequence-Number Grouped 2057 Servi-Address Grouped 2058 Rate-Element Grouped 2059 Call-Sequence-Number Grouped 2050 Tariff-Information Grouped 2051 Dransin-Caldress-Flag-Extension Enumerated 2062 Call-Sequence-Number Grouped 2063 Call-Sequence-Number Grouped 2064 Grouped Grouped 2065 Call-Sequence-Number Grouped 2			
2028 Recipient-Received-Address Grouped			
2029 SM-Service-Type			<u> </u>
2031 MMTel-Information	2028 Recipient-Received-Address	Grouped	
2031 MMTel-Information	2029 SM-Service-Type	Enumerated	Ī
Dasigned32			†
Service-Mode			†
Day December Dec	<i>7</i> 1		†
Day December Dec			1
Data Sasociated-Party-Address			1
Day			1
Days Change-Condition Integer32		UTF8String	1
Days Change-Condition Integer32	2036 SDP-Type	Enumerated	
Diagnostics Diagnostics Integer32		Integer32	1
Diagnostics Integer32 Service-Data-Container Grouped			†
Service-Data-Container			+
2041 Start-Time			}
2042 Stop-Time			<u> </u>
Deciding			1
2044 Time-Last-Usage	2042 Stop-Time	Time	
2044 Time-Last-Usage	2043 Time-First-Usage	Time	Ī
Description	2044 Time-Last-Usage	Time	1
2046 Traffic-Data-Volumes Grouped			
Serving-Node-Type			†
2048 Supplementary-Service Grouped			+
Participant-Action-Type			-
Description			1
Dynamic-Address-Flag			1
Dynamic-Address-Flag	2050 PDN-Connection-Charging-ID	Unsigned32	
2052 Accumulated-Cost Grouped	2051 Dynamic-Address-Flag		Ī
2053 AoC-Cost-Information Grouped		Grouped	†
2054 AoC-Information Grouped 2055 AoC-Request-Type Enumerated 2056 Current-Tariff Grouped 2057 Next-Tariff Grouped 2058 Rate-Element Grouped 2059 Scale-Factor Grouped 2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Server-ID UTF8String 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			†
2055 AoC-Request-Type Enumerated 2056 Current-Tariff Grouped 2057 Next-Tariff Grouped 2058 Rate-Element Grouped 2059 Scale-Factor Grouped 2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			†
2056 Current-Tariff Grouped 2057 Next-Tariff Grouped 2058 Rate-Element Grouped 2059 Scale-Factor Grouped 2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Service-Type Enumerated 2103 Application-Sesvice-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			1
2057 Next-Tariff Grouped 2058 Rate-Element Grouped 2059 Scale-Factor Grouped 2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Service-Type Enumerated 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			1
2058 Rate-Element Grouped 2059 Scale-Factor Grouped 2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Service-Type Enumerated 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			1
2059 Scale-Factor Grouped 2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String	2057 Next-Tariff	Grouped	1
2059 Scale-Factor Grouped 2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String	2058 Rate-Element	Grouped	Ī
2060 Tariff-Information Grouped 2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			1
2061 Unit-Cost Grouped 2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			†
2062 Incremental-Cost Grouped 2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			†
2063 Local-Sequence-Number Unsigned32 2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			1
2064 Node-Id UTF8String 2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			1
2065 SGW-Change Enumerated 2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			1
2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String		UTF8String	
2066 Charging-Characteristic-Selection-Mode Enumerated 2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String	2065 SGW-Change	Enumerated	
2067 SGW-Address Address 2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			1
2068 Dynamic-Address-Flag-Extension Enumerated Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. - 2100 reserved - 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			İ
Note: The AVP codes from 2069 to 2099 are reserved for TS 32.299. 2100 reserved - 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			†
2100 reserved - 2101 Application-Server-ID UTF8String 2102 Application-Service-Type Enumerated 2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String		Liidiileiated	l .
2101 Application-Server-IDUTF8String2102 Application-Service-TypeEnumerated2103 Application-Session-IDUnsigned322104 Delivery-StatusUTF8String			П
2102 Application-Service-TypeEnumerated2103 Application-Session-IDUnsigned322104 Delivery-StatusUTF8String		-	1
2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String			1
2103 Application-Session-ID Unsigned32 2104 Delivery-Status UTF8String	2102 Application-Service-Type	Enumerated	22 200 [5]
2104 Delivery-Status UTF8String		Unsigned32	Joz.299 [5]
			†
Z 100 10001Y0U			†
	2100 10001100		1

2106 reserved		-	_
2107 reserved		-	4
2108 reserved		-	4
2109 reserved 2110 IM-Inform	otion	- Grouped	
	ation Of-Messages-Successfully-Exploded	Unsigned32	+
	Df-Messages-Successfully-Sent	Unsigned32	+
	nber-Of-Messages-Exploded	Unsigned32	+
	nber-Of-Messages-Sent	Unsigned32	7
2115 DCD-Info		Grouped	7
2116 Content-II		UTF8String	7
2117 Content-p		UTF8String	7
2118 Charge-R		Enumerated	7
Note: The AVP	codes from 2119 to 2199 are reserved for TS 32.299.	•	
2200 Subsession		Grouped	
	on-Enforcement-Info	Grouped	
2202 Subsession		Unsigned32	
2203 Subsession		Enumerated	29.215
2204 Multiple-E		Enumerated	[22]
2205 UE-Local-		OctetString	ا الحدا
2206 DRA-Dep		Enumerated	4
2207 PCRF-Ad		DiameterIdentity	4
2208 DRA-Bind		Enumerated	
	codes from 2209 to 2299 are reserved for TS 29.215.	1	1
2300 reserved	aat Timaatama Frantiss	- Lineigne doo	4
	est-Timestamp-Fraction	Unsigned32	+
	onse-Timestamp-Fraction	Unsigned32	+
2303 Online-Ch 2304 CUG-Info		Enumerated OctetString	+
	e-Tariff-Information	Grouped	+
2306 Tariff-XMI		UTF8String	
2307 MBMS GV		Address	+
	uthenticated-Flag	Enumerated	+
2309 Account-E		Time	+
2310 AoC-Forn		Enumerated	+
2311 AoC-Serv		Enumerated	
	ice-Obligatory-Type	Grouped	32.299 [5]
2313 AoC-Serv		Enumerated	7
	scription-Information	Grouped	7
2315 Preferred	•	Unsigned32	7
2316 Reserved		-	7
2317 CSG-Acc		Enumerated	7
2318 CSG-Men	nbership-Indication	Enumerated	
2319 User-CSC		Grouped	
2320 Outgoing-		UTF8String	
	-Charging-Identifier	UTF8String	
	gency-Indicator	Enumerated	
2323 MBMS-Ch		Enumerated	
	codes from 2324 to 2399 are reserved for TS 32.299.	T	1
2400 LMSI		OctetString	4
2401 Serving-N		Grouped	4
2402 MME-Nar		DiameterIdentity	-
2403 MSC-Nun		OctetString	4
2404 LCS-Cap		Unsigned32	00.470
2405 GMLC-Ac		Address	29.173
2406 Additional		Grouped Address	[25]
2407 PPR-Add		DiameterIdentity	+
2409 SGSN-Na		DiameterIdentity DiameterIdentity	+
2410 SGSN-Re		DiameterIdentity	=
2411 RIA-Flags		Unsigned32	=
	codes from 2412 to 2499 are reserved for TS 29.173.	Onoignous2	j
2500 SLg-Loca		Enumerated	1
2501 LCS-EPS		Grouped	29.172
2502 LCS-Requ		Grouped	[24]
			1

2503 LCS-Priority	Unsigned32	,
2504 LCS-QoS	Grouped	
2505 Horizontal-Accuracy	Unsigned32	
2506 Vertical-Accuracy	Unsigned32	
2507 Vertical-Requested	Enumerated	
2508 Velocity-Requested	Enumerated	
2509 Response-Time	Enumerated	
2510 Supported-GAD-Shapes	Unsigned32	
2511 LCS-Codeword	UTF8String	
2512 LCS-Privacy-Check	Enumerated	
2513 Accuracy-Fulfilment-Indicator	Enumerated	
2514 Age-Of-Location-Estimate	Unsigned32	
2515 Velocity-Estimate	OctetString	
2516 EUTRAN-Positioning-Data	OctetString	·
2517 ECGI	OctetString	·
2518 Location-Event	Enumerated	·
2519 Pseudonym-Indicator	Enumerated	
2520 LCS-Service-Type-ID	Unsigned32	,
2521 LCS-Privacy-Check-Non-Session	Grouped	•
2522 LCS-Privacy-Check-Session	Grouped	
2523 LCS-QoS-Class	Enumerated	
2524 GERAN-Positioning-Info	Grouped	
2525 GERAN-Positioning-Data	OctetString	•
2526 GERAN-GANSS-Positioning-Data	OctetString	
2527 UTRAN-Positioning-Info	Grouped	
2528 UTRAN-Positioning-Data	OctetString	
2529 UTRAN-GANSS-Positioning-Data	OctetString	
2530 LRR-Flags	Unsigned32	
2531 LCS-Reference-Number	OctetString	
2532 Deferred-Location-Type	Unsigned32	
2533 Area-Event-Info	Grouped	,
2535 Area-Event-Into	Grouped	
2535 Area	Grouped	
	Unsigned32	
2536 Area-Type 2537 Area-Identification		
	Grouped	,
2538 Occurrence-Info	Enumerated	,
2539 Interval-Time	Unsigned32	
2540 Periodic-LDR-Information	Grouped	
2541 Reporting-Amount	Unsigned32	,
2542 Reporting-Interval	Unsigned32	,
2543 Reporting-PLMN-List	Grouped	
2544 PLMN-ID-List	Grouped	,
2545 PLR-Flags	Unsigned32	
2546 PLA-Flags	Unsigned32	
2547 Deferred-MT-LR-Data	Grouped	
2548 Termination-Cause	Unsigned32	
2549 LRA-Flags	Unsigned32	
2550 Periodic-Location-Support-Indicator	Enumerated	
2551 Prioritized-List-Indicator	Enumerated	
2552 ESMLC-Cell-Info	Grouped	
2553 Cell-Portion-ID	Unsigned32	
2554 1xRTT-RCID	OctetString	
2555 Delayed-Location-Reporting-Data	Grouped	
2556 Civic-Address	UTF8String	
2557 Barometric-Pressure	Unsigned32	•
2558 UTRAN-Additional-Positioning-Data	OctetString	•
2559 Motion-Event-Info	Grouped	•
2560 Linear-Distance	Unsigned32	
2561 Maximum-Interval	Unsigned32	
2562 Sampling-Interval	Unsigned32	
2563 Reporting-Duration	Unsigned32	
2564 Reporting-Duration-Requirements	Unsigned32	
2565 Additional-Area	Grouped	
Note: The AVP codes from 2566 to 2599 are reserved for TS 29.		<u> </u>
2600 reserved	-	32.299 [5]
[2000]reserved	=	JZ.ZJJ [J]

2004 IMC Application Deference Identifier	LITEOCHRICA	
2601 IMS-Application-Reference-Identifier	UTF8String	
2602 Low-Priority-Indicator	Enumerated	
2603 IP-Realm-Default-Indicator	Enumerated	
2604 Local-GW-Inserted-Indicator 2605 Transcoder-Inserted-Indicator	Enumerated	
	Enumerated	
2606 PDP-Address-Prefix-Length Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299.	Unsigned32	
2700 Reserved	- LITE00:	
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	32.299 [5]
2709 Access-Transfer-Information	Grouped	02.200 [0]
2710 Access-Transfer-Type	Enumerated	
2711 Related-IMS-Charging-Identifier	UTF8String	
2712 Related-IMS-Charging-Identifier-Node	Address	
2713 IMS-Visited-Network-Identifier	UTF8String	
2714 TWAN-User-Location-Info	Grouped	
2715 Reserved		
2716 BSSID	UTF8String	
2717 TAD-Identifier	Enumerated	
Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299.		•
2800 Reserved	-	
2801 ADC-Revalidation-Time	Time	
2802 TDF-Application-Instance-Identifier	OctetString	
2803 HeNB-BBF-FQDN	UTF8String	
2804 HeNB-Local-IP-Address	Address	
2805 UE-Local-IP-Address	Address	
2806 UDP-Source-Port	Unsigned32	
2807 CS-Service-Qos-Request-Identifier	OctetString	
2808 CS-Service-QoS-Request-Operation	Enumerated	
2809 Mute-Notification	Enumerated	
2810 Monitoring-Time	Time	
2811 AN-GW-Status	Enumerated	
2812 User-Location-Info-Time	Grouped	
2813 CS-Service-Resource-Report	Time	
2814 CS-Service-Resource-Failure-Cause	Enumerated	
2815 CS-Service-Resource-Result-Operation	Enumerated	
2816 Default-QoS-Information	Grouped	
2817 Default-QoS-Name	UTF8String	
2818 Conditional-APN-Aggregate-Max-Bitrate	Grouped	29.212
2819 RAN-NAS-Release-Cause	OctetString	[19]
2820 Presence-Reporting-Area-Elements-List	OctetString	
2821 Presence-Reporting-Area-Identifier	OctetString	
2822 Presence-Reporting-Area-Information	Grouped	
2823 Presence-Reporting-Area-Status	Unsigned32	
2824 NetLoc-Access-Support	Unsigned32	
2825 Fixed-User-Location-Info	Grouped	
2826 PCSCF-Restoration-Indication	Unsigned32	
2827 IP-CAN-Session-Charging-Scope	Enumerated	
2828 Monitoring-Flags	Unsigned32	
2829 Default-Access	Enumerated	
2830 NBIFOM-Mode	Enumerated	
2831 NBIFOM-Support	Enumerated	
2832 RAN-Rule-Support	Unsigned32	
2833 Access-Availability-Change-Reason	Unsigned32	
2834 Routing-Rule-Failure-Code	Unsigned32	
2835 Routing-Rule-Report	Grouped	
2836 Traffic-Steering-Policy-Identifier-DL	OctetString	
2837 Traffic-Steering-Policy-Identifier-UL	OctetString	
2838 Request-Type	Unsigned32	
2000 Noquost Typo	Onsignedaz	

2000 5 5 7		
2839 Execution-Time	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-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.		
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	
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	
3004 Payload	OctetString	
3005 Action-Type	Enumerated	
3006 Priority-Indication	Enumerated	29.368
3007 Reference-Number	Unsigned32	[27]
3008 Request-Status	Enumerated	
3009 Delivery-Outcome	Enumerated	
3010 Application-Port-Identifier	Unsigned32	
3011 Old-Reference-Number	Unsigned32	
3012 Feature-Supported-In-Final-Target	Unsigned32	
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.	Onoignedoz	
3100 IP-SM-GW-Number	OctetStrina	
3101 IP-SM-GW-Name	DiameterIdentity	
3102 User-Identifier	Grouped	
3103 Service-ID	Enumerated	
3104 SCS-Identity	OctetString	
3105 Service-Parameters		
	Grouped	
3106 T4-Parameters	Grouped	
3107 Service-Data	Grouped	
3108 T4-Data	Grouped	
3109 HSS-Cause	Unsigned32	
3110 SIR-Flags	Unsigned32	
3111 External-Identifier	UTF8String	29.336
3112 IP-SM-GW-Realm	DiameterIdentity	[28]
3113 AESE-Communication-Pattern	Grouped	
3114 Communication-Pattern-Set	Grouped	
3115 Periodic-Communication-Indicator	Unsigned32	
	Unsigned32	
3116 Communication-Duration-Time		1
3117 Periodic-Time	Unsigned32	
3117 Periodic-Time 3118 Scheduled-Communication-Time	Unsigned32 Grouped	
3117 Periodic-Time 3118 Scheduled-Communication-Time 3119 Stationary-Indication	Unsigned32 Grouped Unsigned32	
3117 Periodic-Time 3118 Scheduled-Communication-Time	Unsigned32 Grouped	
3117 Periodic-Time 3118 Scheduled-Communication-Time 3119 Stationary-Indication 3120 AESE-Communication-Pattern-Config-Status 3121 AESE-Error-Report	Unsigned32 Grouped Unsigned32 Grouped Grouped	
3117 Periodic-Time 3118 Scheduled-Communication-Time 3119 Stationary-Indication 3120 AESE-Communication-Pattern-Config-Status 3121 AESE-Error-Report	Unsigned32 Grouped Unsigned32 Grouped	
3117 Periodic-Time 3118 Scheduled-Communication-Time 3119 Stationary-Indication 3120 AESE-Communication-Pattern-Config-Status 3121 AESE-Error-Report 3122 Monitoring-Event-Configuration	Unsigned32 Grouped Unsigned32 Grouped Grouped Grouped	
3117 Periodic-Time 3118 Scheduled-Communication-Time 3119 Stationary-Indication 3120 AESE-Communication-Pattern-Config-Status 3121 AESE-Error-Report	Unsigned32 Grouped Unsigned32 Grouped Grouped	

13.22 13.2	2425 2005 10	Diameterldentity	1
3127 Monitoring-Type	3125 SCEF-ID	DiameterIdentity	-}
3128 Maximum-Number-of-Reports			4
3129 UE-Reachability-Configuration			4
3130 Monitoring-Duration			
3131 Maximum-Detection-Time			4
3132 Reachability-Type			
Unsigned32 3134 Maximum-Response-Time			
			
3136 MONTE-Location-Information-Configuration Grouped			-
			+
Unsigned32			-
1318 Association-Type			+
			4
			4
MEI-Change			4
Monitoring-Event-Config-Status Grouped			-}
3143 Supported-Service			4
3144 Supported-Monitoring-Event			4
3145 Service-Result			4
Service-Result			4
			4
3148 Reference-ID-Validity-Time			4
13149 Event-handling			4
3150 NIDD-Authorization-Response Grouped			4
			-
Service-Report Grouped			
3153 Node-Type			
3154 S6t-HSS-Cause			_
Single S			
Stock Content Stock St			
3157 Restricted-PLMN-List Grouped			
3158 Allowed-PLMN-List Grouped			
3159 Requested-Validity-Time Time Time Time 3160 Granted-Validity-Time Time Time 3161 NIDD-Authorization-Update Grouped 3162 Loss-Of-Connectivity-Reason Unsigned32 3163 Group-Reporting-Guard-Timer Unsigned32 3164 CIA-Flags Unsigned32 3165 Group-Report Grouped 3166 Group-Report Grouped 3166 Group-Report-Item Grouped 3167 RIR-Flags Unsigned32 3168 Type-Of-External-Identifier Unsigned32 3168 Type-Of-External-Identifier Unsigned32 3169 APN-Validity-Time Grouped 3170 Suggested-Network-Configuration Grouped 3171 Monitoring-Event-Report-Status Grouped 3172 PLMN-ID-Requested Enumerated 3173 AdditionalIdentifiers Grouped 3174 NIR-Flags Unsigned32 3175 Reporting-Time-Stamp Time Grouped 3176 Group-User-Identifier Grouped 3177 NIA-Flags Unsigned32 3178 MTC-Provider-Info Grouped 3179 MTC-Provider-Info Grouped 3179 MTC-Provider-Info Grouped 3180 PDN-Connectivity-Status-Report Grouped 3181 PDN-Connectivity-Status-Report Grouped 3182 PDN-Connectivity-Status-Report Grouped 3183 Traffic-Profile Unsigned32 3184 Updated-Network-Configuration Grouped 3185 Battery-Indicator Unsigned32 Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336 3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 3201 Absent-Su			
3160 Granted-Validity-Time Time Grouped			
3161 NIDD-Authorization-Update Grouped 3162 Loss-Of-Connectivity-Reason Unsigned32 3163 Group-Reporting-Guard-Timer Unsigned32 3164 ClA-Flags Unsigned32 3165 Group-Report Grouped 3166 Group-Report Grouped 3167 RIR-Flags Unsigned32 3168 Type-Of-External-Identifier Unsigned32 3169 APN-Validity-Time Grouped 3170 Suggested-Network-Configuration Grouped 3171 Monitoring-Event-Report-Status Grouped 3172 PLMN-ID-Requested Enumerated 3173 AdditionalIdentifiers Grouped 3174 NIR-Flags Unsigned32 3175 Reporting-Time-Stamp Time 3176 Group-User-Identifier Grouped 3177 NIA-Flags Unsigned32 3178 MTC-Provider-Info Grouped 3179 MTC-Provider-Info Grouped 3179 MTC-Provider-ID UTF8String 3180 PDN-Connectivity-Status-Configuration Grouped 3181 PDN-Connectivity-Status-Report Grouped 3182 PDN-Connectivity-Status-Type Unsigned32 3183 Traffic-Profile Unsigned32 3184 Updated-Network-Configuration Grouped 3185 Battery-Indicator Unsigned32 3186 Interpretation Grouped 3187 Report Grouped Unsigned32 3188 Battery-Indicator Unsigned32 3180 PDN-Consectivity-Status-Type Unsigned32 3181 PDN-Consectivity-Status-Type Unsigned32 3183 Traffic-Profile Unsigned32 3184 Updated-Network-Configuration Grouped 3185 Battery-Indicator Unsigned32 3186 Traffic-Profile Unsigned32 3187 DN-Colorectivity-Status-Type Unsigned32 3188 Battery-Indicator Unsigned32 3189 DN-Colorectivity-Status-Type Unsigned32 3180 PDN-Colorectivity-Status-Type Unsigned32 3181 PDN-Colorectivity-Status-Type Unsigned32 3182 DN-Colorectivity-Status-Type Unsigned32 3183 DR-Colorectivity-Status-Type Unsigned32 3184 Updated-Network-Configuration Grouped 3185 Battery-Indicator Unsigned32 3200 SM-Delivery-Outcome-T4 Enumerated 29,337	3159 Requested-Validity-Time		
3162 Loss-Of-Connectivity-Reason	3160 Granted-Validity-Time	Time	
3163 Group-Reporting-Guard-Timer		Grouped	
3164 CIA-Flags Unsigned32 3165 Group-Report Grouped 3166 Group-Report-Item Grouped 3167 RIR-Flags Unsigned32 3168 Type-Of-External-Identifier Unsigned32 3169 APN-Validity-Time Grouped 3170 Suggested-Network-Configuration Grouped 3171 Monitoring-Event-Report-Status Grouped 3172 PLMN-ID-Requested Enumerated 3173 AdditionalIdentifiers Grouped 3174 NIR-Flags Unsigned32 3175 Reporting-Time-Stamp Time 3176 Group-User-Identifier Grouped 3177 NIA-Flags Unsigned32 3178 MTC-Provider-Info Grouped 3179 MTC-Provider-Info Grouped 3179 MTC-Provider-Info Grouped 3181 PDN-Connectivity-Status-Report Grouped 3181 PDN-Connectivity-Status-Report Grouped 3182 PDN-Connectivity-Status-Report Grouped 3183 Traffic-Profile Unsigned32 3184 Updated-Network-Configuration Grouped 3185 Battery-Indicator Unsigned32 3186 Traffic-Productome-T4 Enumerated 3200 SM-Delivery-Outcome-T4 Enumerated 329.337 Traffic-Profiles Canada 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 329.337 Traffic-Profiles Canada 329.337 Traffic-Productome-T4 Enumerated			
3165 Group-Report Grouped	3163 Group-Reporting-Guard-Timer	Unsigned32	
3166 Group-Report-Item Grouped	3164 CIA-Flags	Unsigned32	
3167 RIR-Flags	3165 Group-Report	Grouped	
3168 Type-Of-External-Identifier	3166 Group-Report-Item	Grouped	\exists
3169 APN-Validity-Time	3167 RIR-Flags	Unsigned32	\exists
3169 APN-Validity-Time			
3170 Suggested-Network-Configuration Grouped 3171 Monitoring-Event-Report-Status Grouped 3172 PLMN-ID-Requested Enumerated 3173 AdditionalIdentifiers Grouped 3174 NIR-Flags Unsigned32 3175 Reporting-Time-Stamp Time 3176 Group-User-Identifier Grouped 3177 NIA-Flags Unsigned32 3178 MTC-Provider-Info Grouped 3179 MTC-Provider-Info Grouped 3179 MTC-Provider-ID UTF8String 3180 PDN-Connectivity-Status-Configuration Grouped 3181 PDN-Connectivity-Status-Report Grouped 3182 PDN-Connectivity-Status-Type Unsigned32 3183 Traffic-Profile Unsigned32 3184 Updated-Network-Configuration Grouped 3185 Battery-Indicator Unsigned32 3186 Double Status-Type Unsigned32 3187 Traffic-Profile Unsigned32 3188 Description Grouped 3189 Battery-Indicator Unsigned32 3180 SM-Delivery-Outcome-T4 3200 SM-Delivery-Outcome-T4 3201 Absent-Subscriber-Diagnostic-T4 Enumerated			
3171 Monitoring-Event-Report-Status 3172 PLMN-ID-Requested 3173 AdditionalIdentifiers 3174 NIR-Flags 3175 Reporting-Time-Stamp 3176 Group-User-Identifier 3177 NIA-Flags 3178 MTC-Provider-Info 3179 MTC-Provider-Info 3179 MTC-Provider-ID 3180 PDN-Connectivity-Status-Configuration 3181 PDN-Connectivity-Status-Report 3182 PDN-Connectivity-Status-Type 3183 Traffic-Profile 3184 Updated-Network-Configuration 3185 Battery-Indicator Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336. 3200 SM-Delivery-Outcome-T4 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 29.337	3170 Suggested-Network-Configuration	Grouped	
3172 PLMN-ID-Requested Enumerated 3173 AdditionalIdentifiers Grouped 3174 NIR-Flags Unsigned32 3175 Reporting-Time-Stamp Time 3176 Group-User-Identifier Grouped 3177 NIA-Flags Unsigned32 3178 MTC-Provider-Info Grouped 3179 MTC-Provider-ID UTF8String 3180 PDN-Connectivity-Status-Configuration Grouped 3181 PDN-Connectivity-Status-Report Grouped 3182 PDN-Connectivity-Status-Type Unsigned32 3183 Traffic-Profile Unsigned32 3184 Updated-Network-Configuration Grouped 3185 Battery-Indicator Unsigned32 Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336. South Control of the con			7
3173 AdditionalIdentifiers 3174 NIR-Flags 3175 Reporting-Time-Stamp 3176 Group-User-Identifier 3177 NIA-Flags 3178 MTC-Provider-Info 3179 MTC-Provider-ID 3180 PDN-Connectivity-Status-Configuration 3181 PDN-Connectivity-Status-Report 3182 PDN-Connectivity-Status-Type 3183 Traffic-Profile 3184 Updated-Network-Configuration 3185 Battery-Indicator Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336. 3200 SM-Delivery-Outcome-T4 3201 Absent-Subscriber-Diagnostic-T4 Seruped Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Seruped Unsigned32 Unsigned32 Enumerated 29.337			Ī
3174 NIR-Flags Unsigned32 3175 Reporting-Time-Stamp Time 3176 Group-User-Identifier Grouped 3177 NIA-Flags Unsigned32 3178 MTC-Provider-Info Grouped 3179 MTC-Provider-ID UTF8String 3180 PDN-Connectivity-Status-Configuration Grouped 3181 PDN-Connectivity-Status-Report Grouped 3182 PDN-Connectivity-Status-Type Unsigned32 3183 Traffic-Profile Unsigned32 3184 Updated-Network-Configuration Grouped 3185 Battery-Indicator Unsigned32 Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336. Enumerated 3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated			Ī
3175 Reporting-Time-Stamp Time 3176 Group-User-Identifier Grouped 3177 NIA-Flags Unsigned32 3178 MTC-Provider-Info Grouped 3179 MTC-Provider-ID UTF8String 3180 PDN-Connectivity-Status-Configuration Grouped 3181 PDN-Connectivity-Status-Report Grouped 3182 PDN-Connectivity-Status-Type Unsigned32 3183 Traffic-Profile Unsigned32 3184 Updated-Network-Configuration Grouped 3185 Battery-Indicator Unsigned32 Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336. SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated			1
3176 Group-User-Identifier Grouped 3177 NIA-Flags Unsigned32 3178 MTC-Provider-Info Grouped 3179 MTC-Provider-ID UTF8String 3180 PDN-Connectivity-Status-Configuration Grouped 3181 PDN-Connectivity-Status-Report Grouped 3182 PDN-Connectivity-Status-Type Unsigned32 3183 Traffic-Profile Unsigned32 3184 Updated-Network-Configuration Grouped 3185 Battery-Indicator Unsigned32 Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336. SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 29.337			7
3177 NIA-Flags Unsigned32 3178 MTC-Provider-Info Grouped 3179 MTC-Provider-ID UTF8String 3180 PDN-Connectivity-Status-Configuration Grouped 3181 PDN-Connectivity-Status-Report Grouped 3182 PDN-Connectivity-Status-Type Unsigned32 3183 Traffic-Profile Unsigned32 3184 Updated-Network-Configuration Grouped 3185 Battery-Indicator Unsigned32 Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336. SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated			7
3178 MTC-Provider-Info Grouped 3179 MTC-Provider-ID UTF8String 3180 PDN-Connectivity-Status-Configuration Grouped 3181 PDN-Connectivity-Status-Report Grouped 3182 PDN-Connectivity-Status-Type Unsigned32 3183 Traffic-Profile Unsigned32 3184 Updated-Network-Configuration Grouped 3185 Battery-Indicator Unsigned32 Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336. 3200 SM-Delivery-Outcome-T4 Enumerated 329.337 3201 Absent-Subscriber-Diagnostic-T4 Enumerated			1
3179 MTC-Provider-ID 3180 PDN-Connectivity-Status-Configuration 3181 PDN-Connectivity-Status-Report 3182 PDN-Connectivity-Status-Type 3183 Traffic-Profile 3184 Updated-Network-Configuration 3185 Battery-Indicator Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336. 3200 SM-Delivery-Outcome-T4 3201 Absent-Subscriber-Diagnostic-T4 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated 29.337			1
3180PDN-Connectivity-Status-ConfigurationGrouped3181PDN-Connectivity-Status-ReportGrouped3182PDN-Connectivity-Status-TypeUnsigned323183Traffic-ProfileUnsigned323184Updated-Network-ConfigurationGrouped3185Battery-IndicatorUnsigned32Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336.3200SM-Delivery-Outcome-T4Enumerated3201Absent-Subscriber-Diagnostic-T4Enumerated			†
3181PDN-Connectivity-Status-ReportGrouped3182PDN-Connectivity-Status-TypeUnsigned323183Traffic-ProfileUnsigned323184Updated-Network-ConfigurationGrouped3185Battery-IndicatorUnsigned32Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336.Enumerated3200SM-Delivery-Outcome-T4Enumerated3201Absent-Subscriber-Diagnostic-T4Enumerated			7
3182PDN-Connectivity-Status-TypeUnsigned323183Traffic-ProfileUnsigned323184Updated-Network-ConfigurationGrouped3185Battery-IndicatorUnsigned32Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336.3200SM-Delivery-Outcome-T4Enumerated3201Absent-Subscriber-Diagnostic-T4Enumerated			1
3183Traffic-ProfileUnsigned323184Updated-Network-ConfigurationGrouped3185Battery-IndicatorUnsigned32Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336.3200SM-Delivery-Outcome-T4Enumerated3201Absent-Subscriber-Diagnostic-T4Enumerated			†
3184 Updated-Network-Configuration Grouped 3185 Battery-Indicator Unsigned32 Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336. 3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated			†
3185Battery-IndicatorUnsigned32Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336.Enumerated3200SM-Delivery-Outcome-T4Enumerated3201Absent-Subscriber-Diagnostic-T4Enumerated			†
Note: The AVP codes from 3186 to 3199 are reserved for TS 29.336. 3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated			†
3200 SM-Delivery-Outcome-T4 Enumerated 3201 Absent-Subscriber-Diagnostic-T4 Enumerated 29.337			
3201 Absent-Subscriber-Diagnostic-T4 Enumerated 29.337			
OZOZ Higger-Action Ulbiglieubz			[29]
	0202 Higger-Addolf	Unaignedaz	

2202	MTC Error Diagnostic	Lineiane doo	
	MTC-Error-Diagnostic The AVP codes from 3204 to 3299 are reserved for TS 29.337.	Unsigned32	
	SC-Address	OctetString	
	SM-RP-UI	OctetString	1
	TFR-Flags	Unsigned32	†
3303	SM-Delivery- Failure-Cause	Grouped	1
	SM-Enumerated-Delivery-Failure-Cause	Enumerated	
	SM-Diagnostic-Info	OctetString]
3306	SM-Delivery-Timer	Unsigned32	1
	SM-Delivery-Start-Time	Time	<u> </u>
	SM-RP-MTI	Enumerated	4
	SM-RP-SMEA	OctetString	1
	SRR-Flags SM-Delivery-Not-Intended	Unsigned32 Enumerated	-
	MWD-Status	Unsigned32	1
	MME-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	†
	MSC-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	†
	SGSN-Absent-User-Subscriber-Diagnostic SM	Unsigned32	†
	SM-Delivery-Outcome	Grouped	1
	MME-SM-Delivery-Outcome	Grouped	
	MSC-SM-Delivery-Outcome	Grouped	<u>↓</u>
	SGSN-SM-Delivery-Outcome	Grouped	↓
	IP-SM-GW-SM-Delivery-Outcome	Grouped	4
	SM-Delivery-Cause	Enumerated	00.000
	Absent-User-Diagnostic-SM RDR-Flags	Unsigned32 Unsigned32	29.338
	SMSMI-Correlation-ID	Unsigned32	[30]
	HSS-ID	UTF8String	1
3326	Originating-SIP-URI	UTF8String	1
3327	Destination-SIP-URI	UTF8String	†
	OFR-Flags	Unsigned32	†
3329	Maximum-UE-Availability-Time	Time]
	Maximum-Retransmission-Time	Time	<u> </u>
	Requested-Retransmission-Time	Time	<u>↓</u>
	SMS-GMSC-Address	OctetString	4
	SMS-GMSC-Alert-Event	Unsigned32	
	SMSF-3GPP-Absent-User-Diagnostic-SM SMSF-Non-3GPP-Absent-User-Diagnostic-SM	Unsigned32 Unsigned32	1
	SMSF-3GPP-SM-Delivery-Outcome	Grouped	1
	SMSF-Non-3GPP-SM-Delivery-Outcome	Grouped	1
	SMSF-3GPP-Number	OctetString	†
	SMSF-Non-3GPP-Number	OctetString	†
3340	SMSF-3GPP-Name	DiameterIdentity	
	SMSF-Non-3GPP-Name	DiameterIdentity]
	SMSF-3GPP-Realm	DiameterIdentity	↓
	SMSF-Non-3GPP-Realm	DiameterIdentity	4
	SMSF-3GPP-Address	Grouped	
	SMSF-Non-3GPP-Address The AVP codes from 3346 to 3399 are reserved for TS 29.338.	Grouped	
	reserved	_	
	Reason-Header	UTF8String	1
	Instance-Id	UTF8String	†
	Route-Header-Received	UTF8String	†
	Route-Header-Transmitted	UTF8String]
3405	SM-Device-Trigger-Information	Grouped]
	MTC-IWF-Address	Address	<u>↓</u>
	SM-Device-Trigger-Indicator	Enumerated	32.299 [5]
	SM-Sequence-Number	Unsigned32	
	SMS-Result	Unsigned32	4
	VCS-Information	Grouped	+
	Basic-Service-Code Bearer-Capability	Grouped OctetString	1
	Teleservice	OctetString	+
	ISUP-Location-Number	OctetString	†
	Forwarding-Pending	Enumerated	†

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	ISUP-Release-Cause	Unsigned32	
	MSC-Address	OctetString	
3418	Network-Call-Reference-Number	OctetString	
3419	Start-of-Charging	Time	
3420	VLR-Number	OctetString	
3421	CN-Operator-Selection-Entity	Enumerated	
	ISUP-Cause-Diagnostics	OctetString	
	ISUP-Cause-Location	Unsigned32	
	ISUP-Cause-Value	Unsigned32	
	EPDG-Address	Address	
	Announcing-UE-HPLMN-Identifier	UTF8String	
	Announcing-UE-VPLMN-Identifier	UTF8String	
	Coverage-Status	Enumerated	
	Layer-2-Group-ID	OctetString	
	Monitored-PLMN-Identifier	UTF8String	
	Monitoring-UE-HPLMN-Identifier	UTF8String	
		Ü	
	Monitoring-UE-Identifier	UTF8String	
	Monitoring-UE-VPLMN-Identifier	UTF8String	
	ProSe-PC3-Control-Protocol-Cause	Integer32	
	ProSe-PC3-EPC-Control-Protocol-Cause	Integer32	
	Requested-PLMN-Identifier	UTF8String	
	Requestor-PLMN-Identifier	UTF8String	
	Role-Of-ProSe-Function	Enumerated	
	Usage-Information-Report-Sequence-Number	Integer32	
	ProSe-3rd-Party-Application-ID	UTF8String	
	ProSe-Direct-Communication-Transmission-Data-Container	Grouped	
3442	ProSe-Direct-Discovery-Model	Enumerated	
3443	ProSe-Event-Type	Enumerated	
3444	ProSe-Function-IP-Address	Address	
	ProSe-Functionality	Enumerated	
3446	ProSe-Group-IP-Multicast-Addresses	Address	
3447	ProSe-Information	Grouped	
3448	ProSe-Range-Class	Enumerated	
3449	ProSe-Reason-For-Cancellation	Enumerated	
3450	ProSe-Request-Timestamp	Time	
3451	ProSe-Role-Of-UE	Enumerated	
	ProSe-Source-IP-Address	Address	
3453	ProSe-UE-ID	OctetString	
	Proximity-Alert-Indication	Enumerated	
	Proximity-Alert-Timestamp	Time	
	Proximity-Cancellation-Timestamp	Time	
	ProSe-Function-PLMN-Identifier	UTF8String	
	Application-Specific-Data	OctetString	
	Coverage-Info	Grouped	
	Location-Info	Grouped	
	ProSe-Direct-Communication-Reception-Data-Container	Grouped	
	Radio-Frequency	OctetString	
	Radio-Parameter-Set-Info	Grouped	
	Radio-Parameter-Set-Values	OctetString	
	Radio-Resources-Indicator	Integer32	
	Time-First-Reception	Time	
	Time-First-Transmission	Time	
	Transmitter-Info	Grouped	
	The AVP codes from 3469 to 3499 are reserved for TS 32.299.	A .l.l	
	BMSC-Address	Address	
	BMSC-Port	Unsigned32	
	MBMS-Bearer-Event	Unsigned32	
	MBMS-Bearer-Event-Notification	Grouped	
	MBMS-Bearer-Request	Grouped	29.468
	MBMS-Bearer-Response	Grouped	[31]
	MBMS-Bearer-Result	Unsigned32	r 1
	MBMS-Start-Time	Time	
	Radio-Frequency	Unsigned32	
		(`rouned	
	TMGI-Allocation-Request TMGI-Allocation-Response	Grouped Grouped	

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	location-Result	Unsigned32	
	eallocation-Request	Grouped	
	eallocation-Response	Grouped	
	eallocation-Result	Unsigned32	
3515 TMGI-E		Grouped	
3516 TMGI-N		Unsigned32	
3517 MB2U-S		Unsigned32	
3518 Local-M		Grouped	
	B2-U-Information	Grouped	
	eNB-IP-Multicast-Address	Address	
	eNB-IPv6-Multicast-Address	Address	
	GW-SSM-IP-Address	Address	
	GW-SSM-IPv6-Address	Address	
	n-Tunnel-Endpoint-Identifier	OctetString	
3525 FEC-Re		OctetString	
3526 ROHC-		Grouped	
	Full-Header-Periodicity	Float32	
3528 ROHC-		Unsigned32	
	ne-Protocol-Result	Grouped	
3530 ROHC-		Unsigned32	
3531 FEC-Re		Unsigned32	
3532 ROHC-		Unsigned32	
	codes from 3533 to 3599 are reserved for TS 29.468.	T	
	pp-Layer-User-Id	UTF8String	
	App-Layer-User-Id	UTF8String	
3602 ProSe-F		OctetString	
3603 ProSe-I	Request-Type	Unsigned32	
3604 PDUID		OctetString	
3605 Applica		UTF8String	29.343
	-Suffixes-Number	Unsigned32	[32]
3607 Monitor		Grouped	[02]
	Code-Suffix-Mask	Grouped	
3609 Suffix-C		OctetString	
3610 Suffix-M		OctetString	
3611 Banned		Grouped	
3612 Metada		Unsigned32	
	codes from 3613 to 3699 are reserved for TS 29.343.		
	Subscription-Data	Grouped	
3702 ProSe-I	'ermission		
13703 IProSo-1		Unsigned32	
	llowed-PLMN	Grouped	
3704 ProSe-I	Direct-Allowed	Grouped Unsigned32	29.344
3704 ProSe-I 3705 UPR-FI	Direct-Allowed ags	Grouped Unsigned32 Unsigned32	29.344
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI	Direct-Allowed ags ags	Grouped Unsigned32 Unsigned32 Unsigned32	
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I	Direct-Allowed ags ags nitial-Location-Information	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped	
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authoriz	Direct-Allowed ags ags nitial-Location-Information ed-Discovery-Range	Grouped Unsigned32 Unsigned32 Unsigned32	
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authoriz Note: The AV	Direct-Allowed ags ags nitial-Location-Information ed-Discovery-Range 2 codes from 3709 to 3799 are reserved for TS 29.344.	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped	
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authoriz Note: The AV 3800 Reserve	Direct-Allowed ags ags ags nitial-Location-Information ed-Discovery-Range Codes from 3709 to 3799 are reserved for TS 29.344. d	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32	
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori Note: The AV 3800 Reserve 3801 App-La	Direct-Allowed ags ags ags nitial-Location-Information ed-Discovery-Range Codes from 3709 to 3799 are reserved for TS 29.344. defer-User-Id	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Unsigned32	
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authoriz Note: The AV 3800 Reserve 3801 App-La 3802 Assista	Direct-Allowed ags ags ags aitial-Location-Information ed-Discovery-Range Codes from 3709 to 3799 are reserved for TS 29.344. ad er-User-Id ace-info	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Unsigned32 Unsigned32	
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori Note: The AV 3800 Reserve 3801 App-La 3802 Assista 3803 Assista	Direct-Allowed ags ags ags initial-Location-Information ed-Discovery-Range Codes from 3709 to 3799 are reserved for TS 29.344. ad er-User-Id ace-info ace-Info-Validity-Timer	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32	
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori Note: The AV 3800 Reserve 3801 App-La 3802 Assista 3803 Assista 3804 Discove	Direct-Allowed ags ags ags initial-Location-Information ed-Discovery-Range Codes from 3709 to 3799 are reserved for TS 29.344. ad er-User-Id ace-info ace-Info-Validity-Timer	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32	
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori Note: The AV 3800 Reserve 3801 App-La 3802 Assista 3803 Assista 3804 Discove 3805 Filter-Id	Direct-Allowed ags ags ags initial-Location-Information ed-Discovery-Range P codes from 3709 to 3799 are reserved for TS 29.344. add er-User-Id ace-info ace-Info-Validity-Timer ry-Type	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 OctetString	
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori Note: The AV 3800 Reserve 3801 App-La 3802 Assista 3803 Assista 3804 Discove 3805 Filter-Id 3806 MAC-A	Direct-Allowed ags ags initial-Location-Information ed-Discovery-Range Codes from 3709 to 3799 are reserved for TS 29.344. deer-User-Id ice-info ice-Info-Validity-Timer ry-Type Iddress	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 UTF8String Grouped Unsigned32	
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori: Note: The AV 3800 Reserve 3801 App-La 3802 Assista 3803 Assista 3804 Discove 3805 Filter-Id 3806 MAC-A 3807 Match-F	Direct-Allowed ags ags initial-Location-Information ed-Discovery-Range Codes from 3709 to 3799 are reserved for TS 29.344. deer-User-Id ice-info ice-Info-Validity-Timer ry-Type Idress deport	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 Grouped Unsigned32 Grouped Grouped Grouped	
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori: Note: The AV 3800 Reserve 3801 App-La 3802 Assista 3803 Assista 3804 Discove 3805 Filter-Id 3806 MAC-A 3807 Match-F 3808 Operati	Direct-Allowed ags ags ags initial-Location-Information ed-Discovery-Range Codes from 3709 to 3799 are reserved for TS 29.344. der-User-Id ice-info ice-Info-Validity-Timer ry-Type Iddress teport ag-Channel	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 OctetString UTF8String Grouped Unsigned32	
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori: Note: The AV 3800 Reserve 3801 App-La 3802 Assista 3803 Assista 3804 Discove 3805 Filter-Id 3806 MAC-A 3807 Match-F 3808 Operati 3809 P2P-Fe	Direct-Allowed ags ags ags initial-Location-Information ed-Discovery-Range P codes from 3709 to 3799 are reserved for TS 29.344. add der-User-Id ace-info ace-Info-Validity-Timer ry-Type Iddress apport ag-Channel atures	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 OctetString UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	[33]
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori: Note: The AV 3800 Reserve 3801 App-La 3802 Assista 3803 Assista 3804 Discove 3805 Filter-Id 3806 MAC-A 3807 Match-F 3808 Operati 3809 P2P-Fe 3810 ProSe-A	Direct-Allowed ags ags ags initial-Location-Information ed-Discovery-Range Codes from 3709 to 3799 are reserved for TS 29.344. der-User-Id ace-info ace-Info-Validity-Timer ry-Type ddress teport ag-Channel atures app-Code	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String	29.345
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori Note: The AV 3800 Reserve 3801 App-La 3802 Assista 3804 Discove 3805 Filter-Id 3806 MAC-A 3807 Match-F 3808 Operati 3809 P2P-Fe 3810 ProSe-I 3811 ProSe-I	Direct-Allowed ags ags ags initial-Location-Information ed-Discovery-Range Codes from 3709 to 3799 are reserved for TS 29.344. der-User-Id ace-info ace-Info-Validity-Timer ry-Type Iddress app-Channel atures app-Code app-Id	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Utf8String Grouped Unsigned32 UTF8String UTF8String UTF8String UTF8String Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String	29.345
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori: Note: The AV 3800 Reserve 3801 App-La 3802 Assista 3804 Discove 3805 Filter-Id 3806 MAC-A 3807 Match-F 3808 Operati 3809 P2P-Fe 3810 ProSe-I 3811 ProSe-I	Direct-Allowed ags ags ags initial-Location-Information ed-Discovery-Range Codes from 3709 to 3799 are reserved for TS 29.344. id ager-User-Id ace-info ace-Info-Validity-Timer ry-Type Iddress app-Channel atures app-Code app-Id app-Mask	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Utf8String Grouped Unsigned32 UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String	29.345
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori: Note: The AV 3800 Reserve 3801 App-La 3802 Assista 3804 Discove 3805 Filter-Id 3806 MAC-A 3807 Match-F 3808 Operati 3809 P2P-Fe 3810 ProSe-I 3811 ProSe-I 3813 ProSe-I	Direct-Allowed ags ags ags initial-Location-Information ed-Discovery-Range Codes from 3709 to 3799 are reserved for TS 29.344. der-User-Id ace-info ace-Info-Validity-Timer ry-Type Idress Leport ag-Channel attures app-Code app-Id app-Mask Discovery-Filter	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Utf8String Grouped Unsigned32 UTF8String UTF8String UTF8String UTF8String Grouped	29.345
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori: Note: The AV 3800 Reserve 3801 App-La 3802 Assista 3804 Discove 3805 Filter-Id 3806 MAC-A 3807 Match-F 3808 Operati 3809 P2P-Fe 3810 ProSe-I 3811 ProSe-I 3812 ProSe-I 3813 ProSe-I 3814 PRR-FI	Direct-Allowed ags ags aginitial-Location-Information ed-Discovery-Range Codes from 3709 to 3799 are reserved for TS 29.344. ager-User-Id ace-info ace-Info-Validity-Timer ary-Type Iddress approcede approce	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String	29.345
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori: Note: The AV 3800 Reserve 3801 App-La 3802 Assista 3804 Discove 3805 Filter-Id 3806 MAC-Ae 3807 Match-F 3808 Operati 3809 P2P-Fe 3810 ProSe-I 3811 ProSe-I 3812 ProSe-I 3814 PRR-FI 3815 ProSe-I	Direct-Allowed ags ags ags anitial-Location-Information ed-Discovery-Range Codes from 3709 to 3799 are reserved for TS 29.344. ager-User-Id ace-info ace-info ace-info-Validity-Timer ary-Type Iddress Export ag-Channel attures App-Code App-Id App-Mask Discovery-Filter ags //alidity-Timer	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String Grouped Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String	29.345
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori: Note: The AV 3800 Reserve 3801 App-La 3802 Assista 3804 Discove 3805 Filter-Id 3806 MAC-A 3807 Match-F 3808 Operati 3809 P2P-Fe 3810 ProSe-I 3811 ProSe-I 3812 ProSe-I 3813 ProSe-I 3815 ProSe-I 3816 Reques	Direct-Allowed ags ags agigs initial-Location-Information ed-Discovery-Range Codes from 3709 to 3799 are reserved for TS 29.344. id ager-User-Id ace-info ace-info ace-Info-Validity-Timer ary-Type Iddress Export ag-Channel attures app-Code app-Id app-Mask Discovery-Filter ags //alidity-Timer aigs-EPUID	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 UTF8String Grouped Unsigned32 UTF8String	29.345
3704 ProSe-I 3705 UPR-FI 3706 PNR-FI 3707 ProSe-I 3708 Authori: Note: The AV 3800 Reserve 3801 App-La 3802 Assista 3804 Discove 3805 Filter-Id 3806 MAC-A 3807 Match-F 3808 Operati 3809 P2P-Fe 3810 ProSe-I 3811 ProSe-I 3812 ProSe-I 3814 PRR-FI 3815 ProSe-I	Direct-Allowed ags ags ags anitial-Location-Information ed-Discovery-Range P codes from 3709 to 3799 are reserved for TS 29.344. add arer-User-Id ace-info ace-Info-Validity-Timer ary-Type Iddress Export ag-Channel atures app-Code app-Id app-Mask Discovery-Filter ags '/alidity-Timer aig-EPUID d-EPUID	Grouped Unsigned32 Unsigned32 Unsigned32 Grouped Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String Grouped Unsigned32 UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 UTF8String	29.345

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	WiFi-P2P-Assistance-Info	Grouped	
	WLAN-Assistance-Info	Grouped	
	WLAN-Link-Layer-Id	OctetString	
	WLAN-Link-Layer-Id-List	Grouped	
	_ocation-Update-Trigger	Grouped	
	_ocation-Update-Event-Type	Unsigned32	
	Change-Of-Area-Type	Grouped	
	_ocation-Update-Event-Trigger	Unsigned32	
	Report-Cardinality	Enumerated	
	Minimum-Interval-Time	Unsigned32	
	Periodic-Location-Type	Grouped	
3830 L	_ocation-Report-Interval-Time	Unsigned32	
3831 7	Total-Number-Of-Reports	Unsigned32	
	Validity-Time-Announce	Unsigned32	
3833 \	Validity-Time-Monitor	Unsigned32	
3834 \	Validity-Time-Communication	Unsigned32	
3835 F	ProSe-App-Code-Info	Grouped	
3836 N	MIC	OctetString	
3837 L	JTC-based-Counter	Unsigned32	
	ProSe-Match-Refresh-Timer	Unsigned32	
	ProSe-Metadata-Index-Mask	OctetString	
	App-Identifier	Grouped	
3841		OctetString	
	OS-App-ID	UTF8String	
	Requesting-RPAUID	UTF8String	
	Target-RPAUID	UTF8String	
	Target-PDUID	OctetString	
	ProSe-Restricted-Code	OctetString	ł
	ProSe-Restricted-Code-Suffix-Range	OctetString	1
	Beginning-Suffix	OctetString	
	Ending-Suffix	OctetString	
	Discovery-Entry-ID	Unsigned32	
	Match-Timestamp	Time	
			ł
3852 F	PMR-Flags	Unsigned32	
	ProSe-Application-Metadata	UTF8String	
	Discovery-Auth-Request	Grouped	
	Discovery-Auth-Response	Grouped	
	Match-Request	Grouped	
	Match-Report-Info	Grouped	
	Banned-RPAUID	UTF8String	
	Banned-PDUID	OctetString	
	Code-Receiving-Security-Material	Grouped	
	Code-Sending-Security-Material	Grouped	
3862		OctetString	
3863		OctetString	
3864		OctetString	
	MIC-Check-indicator	Unsigned32	
	Encrypted-Bitmask	OctetString	
3867 F	ProSe-App-Code-Suffix-Range	OctetString	
	PC5-tech	OctetString	
	The AVP codes from 3869 to 3899 are reserved for TS 29.345.		
	Reserved		
	Enhanced-Diagnostics	Grouped	
	nter-UE-Transfer	Enumerated	
	TWAG-Address	Address	
	Announcement-Information	Grouped	
	Announcement-Identifier	Unsigned32	
	Announcement-Order	Unsigned32	
	√ariable-Part	Grouped	32.299 [5]
	Variable-Part-Order	Unsigned32	
	Variable-Part-Type	Unsigned32	
	√ariable-Part-Value	UTF8String	
	Fime-Indicator	Unsigned32	1
	Quota-Indicator	Enumerated	
3913 F	Play-Alternative	Enumerated	

	LITEORY	1
3914 Language	UTF8String	
3915 Privacy-Indicator	Enumerated	
3916 Called-Identity 3917 Called-Identity-Change	UTF8String	
3918 UWAN-User-Location-Info	Grouped Grouped	-
3919 Monitoring-Event-Configuration-Activity	Integer32	\dashv
3920 Monitoring-Event-Report-Data	Grouped	-
3921 Monitoring-Event-Information	Grouped	-
3922 Monitoring-Event-Functionality	Integer32	\dashv
3923 Monitoring-Event-Report-Number	Unsigned32	
3924 Cellular-Network-Information	OctetString	
3925 Related-Change-Condition-Information	Grouped	
3926 Related-Trigger	Grouped	
3927 CPDT-Information	Grouped	
3928 NIDD-Submission	Grouped	
3929 Serving-Node-Identity	DiameterIdentity	
3930 CP-CloT-EPS-Optimisation-Indicator	Enumerated	
3931 SGi-PtP-Tunnelling-Method	Enumerated	_
3932 UNI-PDU-CP-Only-Flag	Enumerated	_
3933 APN-Rate-Control	Grouped	_
3934 APN-Rate-Control-Downlink	Grouped	7
3935 APN-Rate-Control-Uplink	Grouped	\dashv
3936 Additional-Exception-Reports	Enumerated	\dashv
3937 Rate-Control-Max-Message-Size	Unsigned32	7
3938 Rate-Control-Max-Rate	Unsigned32	7
3939 Rate-Control-Time-Unit	Unsigned32	
3940 SCS-AS-Address	Grouped	
3941 SCS-Address	Address	
3942 SCS-Realm	DiameterIdentity	
Note: The AVP codes from 3943 to 3999 are reserved for TS 32.299.		
4000 Aggregated-Congestion-Info	Grouped	
4001 Aggregated-RUCI-Report	Grouped	T
4002 Congestion-Level-Definition	Grouped	
4003 Congestion-Level-Range	Unsigned32	
4004 Congestion-Level-Set-Id	Unsigned32	
4005 Congestion-Level-Value	Unsigned32	
4006 Congestion-Location-Id	Grouped	29.217
4007 Conditional-Restriction	Unsigned32	[35]
4008 eNodeB-Id	OctetString	
4009 IMSI-List	OctetString	
4010 RCAF-Id	DiameterIdentity	
4011 Reporting-Restriction	Unsigned32	
4012 RUCI-Action	Unsigned32	
4013 Extended-eNodeB-ID	OctetString	
Note: The AVP codes from 4014 to 4099 are reserved for TS 29.217.		1
4101 Network-Congestion-Area-Report	Grouped	29.153
4102 Ns-Request-Type	Unsigned32	[37]
Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.	<u> </u>	1
4201 Network-Area-Info-List	OctetString	\dashv
4202 Reference-Id	OctetString	_
4203 Transfer-Request-Type	Unsigned32	_
4204 Time-Window	Grouped	\dashv
4205 Transfer-End-Time	Time	
4206 Transfer-Start-Time	Time	
4207 Transfer-Policy	Grouped	- 00 454
4208 Transfer-Policy-Id	Unsigned32	29.154
4209 Number-Of-UEs	Unsigned32	[38]
4210 Access-Network-Reports	Grouped	\dashv
4211 Event-Configuration	Grouped	\dashv
4212 Event-Configuration-State	Unsigned32	\dashv
4213 Event-Configuration-Status	Grouped	-
4214 Event-Reporting-Results	Unsigned32 Grouped	-
4215 Event-Reports		-
4216 Extended-SCEF-Reference-ID	Unsigned64	
Note: The AVP codes from 4217 to 4299 are reserved for TS 29.154.		

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4300 Communication-Failure-Information	Grouped	
4301 Cause-Type	Unsigned32	
4302 S1AP-Cause	Unsigned32	
4303 RANAP-Cause	Unsigned32	
4304 GMM-Cause	Unsigned32	
4305 SM-Cause	Unsigned32	
4306 Number-of-UE-Per-Location-Configuration	Grouped	
4307 Number-of-UE-Per-Location-Report	Grouped	
4308 UE-Count	Unsigned32	
4309 BSSGP-Cause	Unsigned32	
	<u> </u>	
4310 Serving-PLMN-Rate-Control	Grouped	
4311 Uplink-Rate-Limit	Unsigned32	
4312 Downlink-Rate-Limit	Unsigned32	29.128
4313 Extended-PCO	OctetString	[36]
4314 Connection-Action	Unsigned32	
4315 Non-IP-Data	OctetString	
4316 SCEF-Wait-Time	Time	
4317 CMR-Flags	Unsigned32	
4318 RRC-Cause-Counter	Grouped	
4319 Counter-Value	Unsigned32	
4320 RRC-Counter-Timestamp	Time	
		
4321 TDA-Flags	Unsigned32	
4322 Idle-Status-Indication	Grouped	
4323 Idle-Status-Timestamp	Time	
4324 Active-Time	Unsigned32	
4325 Reachability-Cause	Unsigned32	
Note: The AVP codes from 4326 to 4399 are reserved for TS 29.128.		
4400 Charging-Per-IP-CAN-Session-Indicator	Enumerated	
4401 Access-Network-Info-Change	Enumerated	
4402 Discoveree-UE-HPLMN-Identifier	UTF8String	
4403 Discoveree-UE-VPLMN-Identifier	UTF8String	
		
4404 Discoverer-UE-HPLMN-Identifier	UTF8String	
4405 Discoverer-UE-VPLMN-Identifier	UTF8String	
4406 3GPP-PS-Data-Off-Status	Enumerated	32.299 [5]
4407 Unused-Quota-Timer	Unsigned32	02.200 [0]
4408 Announcing-PLMN-ID	UTF8String	
4409 ProSe-UE-to-Network-Relay-UE-ID	OctetString	
4410 ProSe-Target-Layer-2-ID	OctetString	
4411 Relay-IP-address	Address	
4412 Target-IP-Address	Address	
4413 FE-Identifier-List	UTF8String	
Note: The AVP codes from 4414 to 4499 are reserved for TS 32.299	e ir ceanig	L
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	00.000
4507 DUA-Flags	Unsigned32	29.283
4508 NDR-Flags	Unsigned32	[39]
4509 NDA-Flags	Unsigned32	
	Unsigned32	
4510 User-Data-Id		
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	
4601 V2X-Update-Flags	Unsigned32	
4602 V2X-Notify-Flags	Unsigned32	29.388
4603 PLMN-Allowed-PC5-RATs	Grouped	[40]
	Enumerated	
4604 PC5-RAT-Type	Enumerated	
Note: The AVP codes from 4605 to 4799 are reserved for TS 29.388.		ı
4700 V2X-Authorization-Data	Grouped	

4701	V2X-Permission-in-VPLMN	Unsigned32	29.389				
4702	V2X-Application-Server	Grouped	[41]				
Note:	Note: The AVP codes from 4703 to 4799 are reserved for TS and TS 29.389.						
			29.561				
			[42]				
Note:	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 Experim	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.	
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]
Note: The Experim	ental Result Codes from 2022 to 2040 are reserved for the TS 29.061	
		29.109 [7]
Note: The Experim	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.	
2421	DIAMETER_QOS_FLOW_DELETION_INDICATION	29.561 [42]
Note: The Experim	ental Result Codes from 2422 to 2440 are reserved for the TS 29.561.	_

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

	Experimental Result Code	Result text		Specified in the TS		
	4101					
1	Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29	9.329.			
L		DIAMETER_ERROR_OUT_OF_RESOURCES		29.061 [13]		
1		ntal Result Codes from 4122 to 4140 are reserved for the TS 29	9.061.			
		DIAMETER_PCC_BEARER_EVENT				
		DIAMETER_BEARER_EVENT				
	4143	DIAMETER_AN_GW_FAILED		29.212 [19]		
		DIAMETER_PENDING_TRANSACTION		1		
		DIAMETER_UE_STATUS_SUSPEND				
1	Note: The Experime	ntal Result Codes from 4146 to 4160 are reserved for the TS 2	9.212	1		
L				32.299 [5]		
		ntal Result Codes from 4161 to 4180 are reserved for the TS 3	2.299.			
418		R_AUTHENTICATION_DATA_UNAVAILABLE		29.272 [21]		
418		R_ERROR_CAMEL_SUBSCRIPTION_PRESENT				
		t Codes from 4182 to 4200 are reserved for the TS 29.272.		00.470.5051		
420		ER_ERROR_ABSENT_USER		29.173 [25]		
		t Codes from 4202 to 4220 are reserved for the TS 29.173.				
422		R_ERROR_UNREACHABLE_USER				
422		R_ERROR_SUSPENDED_USER				
422		R_ERROR_DETACHED_USER		29.172 [24]		
422		R_ERROR_POSITIONING_DENIED R ERROR POSITIONING FAILED				
422						
		R_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT t Codes from 4227 to 4240 are reserved for the TS 29.172.				
424		R_ERROR_NO_AVAILABLE_POLICY_COUNTERS		29.219 [26]		
		t Codes from 4242 to 4260 are reserved for the TS 29.219.		29.219 [20]		
426		TED_SERVICE_TEMPORARILY_NOT_AUTHORIZED		29.214 [18]		
	•	t Codes from 4262 to 4280 are reserved for the TS 29.214.		20.217[10]		
TAULE. THE	Experimental Nesul	1 00003 HOLL 4202 to 4200 are reserved for the 10 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

Experimenta I Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER ERROR IDENTITIES DONT MATCH	
5002	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	[29.229 [2]
	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	-
5009 5010	unassigned	
	Ü	
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED	
5012	DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUP	
Note: The Even	PORTED	FC 00 000
Note: The Expe	erimental Result Codes from 5013 to 5020 are reserved for the	
Nista Tha Fire		32.299 [5]
	erimental Result Codes from 5021 to 5040 are reserved for the	18 32.299.
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBS	29.234 [6]
	CRIPTION	
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	
Note: The Expe	erimental Result Codes from 5046 to 5060 are reserved for the	ΓS 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	00 000 101
5064	DUPLICATED_AF_SESSION	29.209 [8],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.211 [17] ,
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	29.214 [18]
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
5068	TEMPORARY_NETWORK_FAILURE	
Note: The Expe	erimental Result Codes from 5069 to 5080 are reserved for TS 2 TS 29.214.	29.209, TS 29.211
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER ERROR OPERATION NOT ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	29.329 [4]
5105	DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
Note: The Expe	erimental Result Codes from 5109 to 5119 are reserved for the	ΓS 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVI CE	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
Note: The Expe	erimental Result Codes from 5124 to 5139 are reserved for the	ΓS 29.061.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	
5143	DIAMETER ERROR BEARER NOT AUTHORIZED	1
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECT ED	29.212 [19]
5145	DIAMETER QOS RULE EVENT	
5146	reserved	1
5147	DIAMETER ERROR CONFLICTING REQUEST	1
5148	DIAMETER_ADC_RULE_EVENT	
5149	DIAMETER_ERROR_NBIFOM_NOT_AUTHORIZED	1
J 1 7 3	DIVINE LETT FLUXON INDITION INDITION IN THE PROPERTY OF THE PR	ļ

Note: The Exp	erimental Result Codes from 5150 to 5159 are reserved for the	TS 29 212
5401	DIAMETER_ERROR_IMPI_UNKNOWN	10 29.212.
5402	DIAMETER_ERROR_NOT_AUTHORIZED	1
5402	DIAMETER ERROR TRANSACTION IDENTIFIER INVALI	29.109 [7
5405	D DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALI	
Note: The Expe	erimental 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	
	erimental Result Codes from 5424 to 5449 are reserved for the	TS 20 272
5450	DIAMETER ERROR USER NO NON 3GPP SUBSCRIPT	10 20.272.
0400	ION	
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	-
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	29.273 [20]
5453	DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST	-
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST	-
	erimental Result Codes from 5455 to 5469 are reserved for the	TC 20 272
		15 29.273.
5470	DIAMETER_ERROR_SUBSESSION	20 245 [22]
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHM ENT	29.215 [22]
Note: The Exp	erimental Result Codes from 5472 to 5489 are reserved for the	TS 29.215
5490	DIAMETER ERROR UNAUTHORIZED REQUESTING NE	
0.00	TWORK	29.173 [25]
Note: The Exp	erimental Result Codes from 5491 to 5509 are reserved for the	TS 29 173
5510	DIAMETER ERROR UNAUTHORIZED REQUESTING EN	10 20.170.
3310	TITY	
5511	DIAMETER ERROR UNAUTHORIZED SERVICE	
5512	DIAMETER_ERROR_REQUESTED_RANGE_IS_NOT	
3312	ALLOWED	
5513	DIAMETER_ERROR_CONFIGURATION_EVENT_STORAG	29.336 [28]
3313	E_NOT_SUCCESSFUL	29.550 [20]
5514	DIAMETER_ERROR_CONFIGURATION_EVENT_NON_EXI	
5514	STANT	
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	
5516	DIAMETER_ERROR_UNAUTHORIZED_MTC_PROVIDER	
	erimental Result Codes from 5517 to 5529 are reserved for the	TC 20 226
	DIAMETER_ERROR_INVALID_SME_ADDRESS	13 29.330.
5530		
5531	DIAMETER_ERROR_SC_CONGESTION	
5532	DIAMETER_ERROR_SM_PROTOCOL	00 007 [00]
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	29.337 [29]
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5535	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDI	
	NG	
	erimental Result Codes from 5536 to 5549 are reserved for the	IS 29.337.
5550	DIAMETER_ERROR_ABSENT_USER	
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5553	DIAMETER_ERROR_ILLEGAL_USER	
5554	DIAMETER_ERROR_ILLEGAL_EQUIPMENT	29.338 [30]
5555	DIAMETER_ERROR_SM_DELIVERY_FAILURE]
5556	DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED	
5557	DIAMETER_ERROR_SERVICE_BARRED	
5558	DIAMETER_ERROR_MWD_LIST_FULL	
	erimental Result Codes from 5559 to 5569 are reserved for the	TS 29.338.
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
	Experimental Result Codes from 5571 to 5589 are reserved for	
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	-
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	1
5592	DIAMETER_ERROR_PFID_UNKNOWN	
5593	DIAMETER_ERROR_APP_REGISTER_REJECT	
5594	DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLO WED	29.343 [32]
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	
5596	DIAMETER ERROR REQUESTING RPAUID UNKNOWN	1
5555	122.12.1	L

		T
5597	DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_ SET	
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	
	erimental Result Codes from 5603 to 5609 are reserved for the	I TS 29 343
5610	DIAMETER ERROR UNKNOWN PROSE SUBSCRIPTIO	10 20.0 10.
0010	N	
5611	DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]
5612	DIAMETER ERROR UE LOCATION UNKNOWN	
Note: The Exp	erimental Result Codes from 5613 to 5629 are reserved for the	TS 29.344.
5630	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FIL	
	TER	
5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN	
	_PLMN	
5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE	
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	
5634	DIAMETER_ERROR_PROXIMITY_REJECTED	
5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	29.345 [34]
5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THI	29.343 [34]
	S_PLMN	
5637	DIAMETER_ERROR_PROXIMITY_CANCELLED	
5638	DIAMETER_ERROR_INVALID_TARGET_PDUID	
5639	DIAMETER_ERROR_INVALID_TARGET_RPAUID	
5640	DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_C	
	ODE	
5641	DIAMETER_ERROR_INVALID_DISCOVERY_TYPE	
	erimental Result Codes from 5642 to 5649 are reserved for the	TS 29.345.
5650	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SER VED	
5651	DIAMETER ERROR INVALID EPS BEARER	
5652	DIAMETER ERROR NIDD CONFIGURATION NOT AVAI	29.128 [36]
3002	LABLE	20.120 [00]
5653	DIAMETER_ERROR_USER_TEMPORARILY_UNREACHA	
	BLE	
Note: The Exp	erimental Result Codes from 5654 to 5669 are reserved for the	TS 29.128.
5670	DIAMETER_ERROR_UNKNKOWN_DATA	
5671	DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	29.283 [39]
Note: The Exp	erimental Result Codes from 5672 to 5689 are reserved for the	TS 29.128.
5690	DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION	
5691	DIAMETER_ERROR_V2X_NOT_ALLOWED	29.388 [40]
Note: The Exp	erimental Result Codes from 5692 to 5709 are reserved for the	TS 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		2	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		1	AVPs for TS 29.273	8.5.0
				4		
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
		J. 001002	0160		Session-Priority AVP	1
			0163	2	Introduction of SLh application related AVPs and Experimental Result codes	1
			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	1	Wildcarded Public Identity	9.2.0
2010-03	01#41	CP-100031		1	Correction on AVP code allocation reservation for TS 32.299 in Rel-9	9.2.0
		CP-100034 CP-100046			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			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	4
		CP-110087			Minimization of Drive Tests (MDT)	4
		CP-110088			Relay Node Indicator AVPs	
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			MIPv4 security parameters on the STa and S6b interfaces	
		CP-110380	0216		MDT user consent	
		CP-110370			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	1
		CP-110554			AVP code alignment with 29.214	
		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
	1 30	CP-110579		-	AVP code alignment with 32.299	1
		CP-110579			AVP code alignment with 32.299 AVP code reservation for 29.212	+
2011-12	CT#54	CP-110555		1	SWx Restoration AVPs	11.1.0
ZU11-1Z	C1#34			1		11.1.0
ı		CP-110812 CP-110775			Sy and Sd Application IDs	4
		TOP-110/75	0202		New AVP codes for MBMS IP unicast encapsulation	_
			0005		Now AVD and a for MDMC ID multipact an annultipact	
		CP-110775 CP-110786		4	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-130378			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	
201// 12	CT#66	CP-140785	0409	1	Editorial: WLAN-offloadability AVP codes added as in CR C4-141648. New AVP for MBMS restoration	12.7.
2014-12	C1#66	CP-140765	0409		New Diagnostic-Info AVP for MBMS restoration	12.7.
			0410		WLCP key for WLCP signalling protection	
			0411	-	Reset-ID	
			0416	1	Code definitions for 32.299	
			0428	-	Removal of I-WLAN AVPs	_
			0429 0433	1	Reference correction Code allocation for 29.212	
			0433	-	MDT PLMN List	_
			0422		Codes Allocation for PC2 Protocol	
			0423		Codes Allocation for PC4a Protoco	
			0431	3	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	_
			0426	1	OFR-Flags AVP code	
				1	P-CSCF Restoration mechanism new error	
2015-03	CT#67	CP-150015		-	Renaming of Location-Type AVP	12.8.
			0437		Location reporting in emergency 1xSRVCC	_
			0435		AVP codes for GCSE MB2-C	-
			0442		New AVPs and range of transient failure result codes in TS 29.214	1
			0438 0440		Allocation of code for Authorized-Discovery-Range AVP (TS 29.344) Location Update Trigger	1
			0440		AVP codes allocation for Validity related AVPs for TS 29.345	1
			0443	<u> </u>	Allocation of codes for the Integrity Checks. Aspect AVPs	-
2015-03	CT#67	CP-150039		1	Diameter Application Identifier for Np protocol	13.0.
2015-06	CT#68	CP-150257	0450	1	AVP code allocation for Match Refresh Timer AVP in TS 29.345	13.1.
		CP-150247	0457	-	Wrong CR implementation of CR 0416r1	
		CP-150249		1	AVP code allocation for 32.299	
		CP-150263		1	AVP codes for Access Restriction Data per PLMN	_
0045.00	CT#C0	CP-150372		-	IP-SM-GW-Realm	40.0
2015-09	CT#69	CP-150454 CP-150442		-	Subscription data for extended buffering at the SGW	13.2.
		CP-150442		2	Overlapping transaction over S6b Addition of IMSI Group Id AVP definition	
		CP-150449			Addition of CP parameter AVP definition	1
		CP-150431		1	AVP codes for TS 29.212	
		CP-150456		3	AVP definiton for S6t	
2015-12	CT#70	CP-150761		-	Addition of MBMS-Cell-List AVP	13.3.
		CP-150778			S6t Application ID and Command Codes	
		CP-150778			Bitmask to inform the SCEF of the Monitoring capabilities	
		CP-150778			AVP codes for MONTE T6a/b interface	
		CP-150778		1	Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types	
		CP-150778			Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE)	
		CP-150778		1	Definition of AVP SCEF-ID	1
		CP-150778			Service result per Event configuration	1
	-	CP-150770 CP-150776			Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due	-
		CP-150776	04/6	-	to power saving	
		CP-150776	0497	1	Mobile Terminating SMS handling for extended Idle mode DRX	1
		CP-150776			Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option	
		CP-150777	0477	3	Commands and codes for Np protocol	1
		CP-150772			Definition of ProSe-Metadata-Index-Mask]
		CP-150772	0489	-	Addition of AVPs and result-codes]
		CP-150772		-	Addition of AVP used in match report procedure for eProSe-Ext-CT	
		CP-150754		1	Allowed WAF and/or WWSF Identities	
		CP-150773		-	Add the default access type to 3GPP specific AVP	-
		CP-150781		1	AVP code allocation for "UE Usage Type"	1
		CP-150755 CP-150755		-	Metadata in Match-Report New Group AVP for ProSe direct discovery procedures	-
	}	CP-150755 CP-150771		1	Definition of AVP for AESE-CT	1
		CP-150771		1	Command codes and AVP range for TS 29.154 and TS 29.153	1
		CP-150776		1	AVP codes for Indoor Positioning support in SLg/Lgd	
2016-03	CT#71	CP-160041		-	Application ID for St	13.4.
	1	CP-160041		1	Correction on TS numbers	1
		CP-160041	0510	-	AVPs for the Rx Diameter application	
	i	CP-160041			AVP code reservation for 32.299	
	Į.	CP-160041			Codes for 29.212	4

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		CP-160029			New AVP assignment for MONTE	
		CP-160029 CP-160035			Change of type of Monitoring-Duration AVP to represent an absolute time Remove the default access AVP	
	ŀ	CP-160035		-	Specific AVP codes for NBIFOM	-
	ŀ	CP-160033		+	Alert procedure from MME/SGSN to SMS-GMSC for MT SMS to UE using	
		01 100030	0311		eDRX	
	ŀ	CP-160037	0512	-	ePDG retrieval of WLAN Location Information	
		CP-160033			Definition of AVP Authorization of NIDD	
	ĺ	CP-160033			New PDN-Type for Cellular IoT	
	ĺ	CP-160036			Monitoring update and Reporting of update result	
		CP-160036	0519	3	Allocation of new Diameter Application ID and commands code for PC2	
					protocol	
2016-03	CT#71	CP-160018			AVP code reservation for 32.299	14.0.0
2016-06	CT#72	CP-160236		1	Command Codes for 29.212	14.1.0
2016-06	CT#72	CP-160236		-	AVP code range 3900-3999	14.1.0
2016-06	CT#72	CP-160236		1	New AVPs in TS 29.214	14.1.0
2016-06 2016-06	CT#72 CT#72	CP-160236 CP-160232			AVP codes for 29.212 AVP Codes for 29.343	14.1.0
2016-06	CT#72	CP-160232			Addition of new AVPs for ProSe direct discovery security and open ProSe	14.1.0
2010-00	01#12	CF-100232	0333	٦	direct discovery with application-controlled extension	14.1.0
2016-06	CT#72	CP-160232	0540	l	Reserved Experimental Result Codes for TS 29.343	14.1.0
2016-06	CT#72	CP-160232		-	Assignment of application ID and command code for PC2 reference point	14.1.0
2016-06	CT#72	CP-160228		 -	IANA Command Code Registration	14.1.0
2016-06	CT#72	CP-160228		1	CloT new commands and Diameter error	14.1.0
2016-06	CT#72	CP-160228		-	NIDD authorisation update	14.1.0
2016-06	CT#72	CP-160228	0560	3	Serving PLMN Rate Control	14.1.0
2016-06	CT#72	CP-160228		-	New AVP for APN Rate Control	14.1.0
2016-06	CT#72	CP-160233		1	Renaming of Validity-Time AVP	14.1.0
2016-06	CT#72	CP-160233		1	New AVPs allocated for 29.153 and 29.154	14.1.0
2016-06	CT#72	CP-160225		3	SCEF Realm	14.1.0
2016-06	CT#72	CP-160225		-	Cleanup up on MONTE AVP's	14.1.0
2016-06	CT#72	CP-160227		-	IANA assigned application Id and command code values	14.1.0
2016-06	CT#72	CP-160227	0547	2	Allocation of AVP codes and Experimental Result codes for Diameter Data Management application	14.1.0
2016.06	CT#72	CP-160231	0553	1	3GPP specific AVP for NBIFOM	14.1.0
2016-06 2016-06	CT#72	CP-160231			Shared Subscription data update	14.1.0
2016-09	CT#73	CP-160424			Missing AVP codes and Experimental-Result codes for T6a	14.2.0
2016-09	CT#73	CP-160424			Allocate of AVP Handling of Exception Reports in the Core Network	14.2.0
2016-09	CT#73	CP-160419			AVP codes for 32.299	14.2.0
2016-09	CT#73	CP-160419			AVP code for 29.214	14.2.0
2016-09	CT#73	CP-160419			AVP code for 29.212	14.2.0
2016-09	CT#73	CP-160436		1	STa and SWm extensions for IMEI check	14.2.0
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