ETSI TS 129 230 V15.7.0 (2020-01)



Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS);

LTE; 5G;

Diameter applications; 3GPP specific codes and identifiers (3GPP TS 29.230 version 15.7.0 Release 15)



Reference RTS/TSGC-0429230vF70 Keywords 5G,GSM,LTE,UMTS

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Siret N° 348 623 562 00017 - NAF 742 C Association à but non lucratif enregistrée à la Sous-Préfecture de Grasse (06) N° 7803/88

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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	I name	Abbreviation	-	ecified in GPP TS				
300	User-Authorization-Red	quest/-Answer	UAR/UAA						
301	Server-Assignment-Re	quest/-Answer	SAR/SAA						
302	Location-Info-Request/	-Answer	LIR/LIA						
303	Multimedia-Auth-Requi	est/-Answer	MAR/MAA	29	29.229 [2]				
304	Registration-Termination	on-Request/-	RTR/RTA]			
	Answer								
305	Push-Profile-Request/-	Answer	PPR/PPA						
306	User-Data-Request/-Ar	nswer	UDR/UDA			-			
307	Profile-Update-Reques	t/-Answer	PUR/PUA	20	141 000 0				
308	Subscribe-Notifications	s-Request/-Answer	SNR/SNA	23	29.329 [4]				
309	Push-Notification-Requ	uest/-Answer	PNR/PNA						
310	Boostrapping-Info-Req	uest/Answer	BIR/BIA	29	9.109 [7]				
•	311	Message-Process-I	Request/Answer	,	MPR/MI	PA	29.140		
	312	GBAPush-Info-Req	uest/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 8388639 Device-Notification-Request/Answer DR/DAA 8388640 Device-Notification-Request/Answer DR/DAA 8388641 Subscriber-Information-Request/Answer SIR/SIA 29.336 [28] 8388718 Configuration-Information-Request/Answer RIR/RIA 29.336 [28] 8388726 NIDD-Information-Request/Answer NIR/NIA 29.336 [28] 8388643 Device-Trigger-Request/Answer DRR/DAA 29.337 [29] 8388644 Delivery-Report-Request/A	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 GCS-Notification-Request/Answer GAR/GAA R8388665 GCS-Notification-Request/Answer GAR/GAA R8388664 ProSe-Subscriber-Information-Request/Answer GAR/GAA R8388666 ProSe-Subscriber-Information-Request/Answer PR/PNA R8388668 ProSe-Nuthorization-Request/Answer PNR/PNA R8388668 ProSe-Nuthorization-Request/Answer PNR/PNA R8388668 ProSe-Nuthorization-Request/Answer PNR/PNA R8388668 ProSe-Nuthorization-Request/Answer PAR/PAA R8388668 ProSe-Discovery-Request/Answer PAR/PAA R8388668 ProSe-Discovery-Request/Answer PAR/PAA R8388669 ProSe-Discovery-Request/Answer PAR/PAA R8388669 ProSe-Discovery-Request/Answer PAR/PAA R8388669 ProSe-Discovery-Request/Answer PAR/PAA R8388669 ProSe-Discovery-Request/A	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 29.336 [28] 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 TFR/TFA 29.338 [30] 8388646 MT-Forward-Short-Message Request/Answer SRR/SRA 29.338 [30] 8388647 Send-Routing-Info-for-SM-Request/Answer RRQuest/Answer ALR/ALA 8388648 Alert-Service-Centre-Request/Answer RDR/RDA 8388669 Trigger-Establishment-Request/Answer GRR/GAA <td>8388731</td> <td>·</td> <td></td> <td>29.212 [19]</td>	8388731	·		29.212 [19]	
8388639 Device-Action-Request/Answer DAR/DAA 8388640 Device-Notification-Request/Answer DNR/DNA 8388641 Subscriber-Information-Request/Answer SIR/SIA 29.336 [28] 8388718 Configuration-Information-Request/Answer CIR/CIA 8388719 Reporting-Information-Request/Answer RIR/RIA 29.336 [28] 8388726 NIDD-Information-Request/Answer NIR/NIA 29.337 [29] 8388643 Device-Trigger-Request/Answer DTR/DTA 29.337 [29] 8388644 Delivery-Report-Request/Answer DRR/DRA 29.337 [29] 8388645 MO-Forward-Short-Message Request/Answer DFR/OFA Request/Answer SRR/SRA 8388646 MT-Forward-Short-Message Request/Answer SRR/SRA 29.338 [30] 8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA 29.338 [30] 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 29.338 [30] 8388669 Trigger-Establishment-Request/Answer GAR/GAA 29.215 [30] 8388661 GCS-Action-Request/Answer GNR/GNA 29.468 [31] <	8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	20 272 [24]	
8388640 Device-Notification-Request/Answer DNR/DNA 29.368 [27] 8388641 Subscriber-Information-Request/Answer SIR/SIA 29.336 [28] 8388718 Configuration-Information-Request/Answer CIR/CIA 8388719 Reporting-Information-Request/Answer RIR/RIA 29.336 [28] 8388726 NIDD-Information-Request/Answer NIR/NIA 29.336 [28] 8388643 Device-Trigger-Request/Answer DTR/DTA 8388644 Delivery-Report-Request/Answer DRR/DRA 8388645 MO-Forward-Short-Message Request/Answer DFR/OFA 8388646 MT-Forward-Short-Message Request/Answer TFR/TFA 8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status-Request/Answer REQUest/Answer 8388660 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GNR/GNA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.344 [33]	8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]	
Subscriber-Information-Request/Answer SIR/SIA 29.336 [28]	8388639	Device-Action-Request/Answer	DAR/DAA		
S388718	8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]	
Request/Answer Rik/RiA 29.336 [28]	8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]	
8388719 Reporting-Information-Request/Answer RIR/RIA 29.336 [28] 8388726 NIDD-Information-Request/Answer NIR/NIA 8388643 Device-Trigger-Request/Answer DTR/DTA 8388643 Delivery-Report-Request/Answer DRR/DRA 8388644 Delivery-Report-Request/Answer DRR/DRA 8388645 MO-Forward-Short-Message Request/Answer OFR/OFA 8388646 MT-Forward-Short-Message Request/Answer TR/TFA 8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status-Request/Answer REDR/RDA 8388650 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer HIR/PIA 29.346 [31] 8388664 ProSe-Subscriber-Data-Request/Answer Request/Answer PNR/PNA 8388665 Update-ProSe-Subscriber-Data-Request/Answer PNR/PNA 8388666 ProSe-Notify-Request/Answe	8388718		CIR/CIA		
8388643 Device-Trigger-Request/Answer DTR/DTA 8388644 Delivery-Report-Request/Answer DRR/DRA 8388645 MO-Forward-Short-Message Request/Answer OFR/OFA Request/Answer 8388646 MT-Forward-Short-Message Request/Answer TFR/TFA Request/Answer 8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA Request/Answer 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status-Request/Answer RDR/RDA Request/Answer 8388656 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA PIR/PIA 29.344 [33] 8388665 Update-ProSe-Subscriber-Data-Request/Answer PNR/PNA PNR/PNA 29.344 [33] 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA Request/Answer 8388668 ProSe-Authorization-Request/Answer PAR/PAA 29.345 [34]	8388719		RIR/RIA	29.336 [28]	
8388644 Delivery-Report-Request/Answer DRR/DRA 29.337 [29] 8388645 MO-Forward-Short-Message Request/Answer OFR/OFA Request/Answer 8388646 MT-Forward-Short-Message Request/Answer TFR/TFA Request/Answer 8388647 Send-Routing-Info-for-SM- Request/Answer SRR/SRA Request/Answer 29.338 [30] 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status- Request/Answer RDR/RDA 8388650 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information- Request/Answer PIR/PIA Request/Answer 29.344 [33] 8388665 Update-ProSe-Subscriber-Data- Request/Answer PNR/PNA 29.344 [33] 8388666 ProSe-Initial-Location-Information- Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388726	NIDD-Information-Request/Answer	NIR/NIA		
8388645 MO-Forward-Short-Message Request/Answer OFR/OFA 8388646 MT-Forward-Short-Message Request/Answer TFR/TFA 8388647 Send-Routing-Info-for-SM- Request/Answer SRR/SRA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status- Request/Answer RDR/RDA 8388656 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information- Request/Answer PIR/PIA 8388665 Update-ProSe-Subscriber-Data- Request/Answer UPR/UPA 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information- Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388643	Device-Trigger-Request/Answer	DTR/DTA		
Request/Answer	8388644	Delivery-Report-Request/Answer	DRR/DRA	29.337 [29]	
8388646 MT-Forward-Short-Message Request/Answer TFR/TFA 8388647 Send-Routing-Info-for-SM- Request/Answer SRR/SRA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status- Request/Answer RDR/RDA 8388656 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information- Request/Answer PIR/PIA 8388665 Update-ProSe-Subscriber-Data- Request/Answer UPR/UPA 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information- Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388645		OFR/OFA		
8388647 Send-Routing-Info-for-SM-Request/Answer SRR/SRA 8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status-Request/Answer RDR/RDA 8388650 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA 29.3468 [31] 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 29.344 [33] 8388666 ProSe-Notify-Request/Answer PNR/PNA 29.344 [33] 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388646	MT-Forward-Short-Message	TFR/TFA		
8388648 Alert-Service-Centre-Request/Answer ALR/ALA 8388649 Report-SM-Delivery-Status-Request/Answer RDR/RDA 8388656 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388647	Send-Routing-Info-for-SM-	SRR/SRA	29.338 [30]	
Request/Answer 8388656 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 29.468 [31] 8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA Request/Answer B388665 Update-ProSe-Subscriber-Data-Request/Answer PNR/PNA 29.344 [33] 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA Request/Answer 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388648		ALR/ALA		
8388656 Trigger-Establishment-Request/Answer TER/TEA 29.215 [30] 8388662 GCS-Action-Request/Answer GAR/GAA 8388663 GCS-Notification-Request/Answer GNR/GNA 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388649		RDR/RDA		
8388663 GCS-Notification-Request/Answer GNR/GNA 29.468 [31] 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388656		TER/TEA	29.215 [30]	
8388663 GCS-Notification-Request/Answer GNR/GNA 8388664 ProSe-Subscriber-Information-Request/Answer PIR/PIA 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388662	GCS-Action-Request/Answer	GAR/GAA		
Request/Answer 8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPAREQUEST/Answer 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSARequest/Answer 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388663	GCS-Notification-Request/Answer	GNR/GNA	29.468 [31]	
8388665 Update-ProSe-Subscriber-Data-Request/Answer UPR/UPA 8388666 ProSe-Notify-Request/Answer PNR/PNA 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388664		PIR/PIA		
8388666 ProSe-Notify-Request/Answer PNR/PNA 29.344 [33] 8388713 ProSe-Initial-Location-Information-Request/Answer PSR/PSA 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388665	Update-ProSe-Subscriber-Data-	UPR/UPA		
Request/Answer 8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388666		PNR/PNA	29.344 [33]	
8388668 ProSe-Authorization-Request/Answer PAR/PAA 8388669 ProSe-Discovery-Request/Answer PDR/PDA 29.345 [34]	8388713		PSR/PSA		
29.345 [34]	8388668		PAR/PAA		
	8388669	ProSe-Discovery-Request/Answer	PDR/PDA	29.345 [34]	
	8388670	ProSe-Match-Request/Answer	PMR/PMA	- 1- 1	

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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

In the SigPP No. Cotes SigP No.	AVP	Attribute Name	Data Type	Specified
101 3GPP-WIAN-QoS-Filter-Rule	Code		,	
102 3GPP-WLAN-QoS-Filter-Support				
Note: The AVP codes from 1 to 255 are reserved for backwards compatibility with 3GPP RADIUS Vendor Specific Antibutes (See 3GPP Ts 29.061 [13], 3GPP Ts 29.661 [14] and 3GPP TS 29.24 [6]				29.234 [6]
Attributes (See 3GPP TS 29.061 [13], 3GPP TS 29.61 [42] and 3GPP TS 29.234 [6]) Note: The AVP codes from 256 to 299 are reserved for future use. 300 Authentication-Method Cutefistring 301 Authentication-Information-SIM Octestistring 302 Authorization Information-SIM Octestistring 303 AVAN-LISE-Obtas Grouped 304 Charging-Date Grouped 305 WLAN-LISE-Obtas Enumerated 306 WLAN-Access Enumerated 307 APN-Buring-Type Enumerated 308 APN-Buring-Type Enumerated 311 Session-Request-Type Enumerated 312 Routing-Policy Enumerated 313 Mar-Requested-Bandwidth OctetString 315 Charging-Policy Enumerated 316 Charging-Policy Finance 317 Secondary-OCS-Charging-Function-Name Diameteridentity 318 GPP-AAA-Server-Name Diameteridentity 319 Maximum-Number-Accesses Usassion-Infection in marked <t< td=""><td></td><td></td><td></td><td></td></t<>				
300 Authentication-Method Enumerated	Attribu	ites (See 3GPP TS 29.061 [13], 3GPP TS 29.561 [42] and 3GP		Specific
301 Authentication-Information-SIM OctetString Oct			Figure a rest e d	
302 Authorization -Information-SIM GotelString Grouped				
MILAN-User-Data Grouped				
Oharqing-Data Grouped			Ŭ	
305 WLAN-Access Enumerated				
APN-Authorized				
308 APN-Barring-Type	306	WLAN- 3GPP-IP-Access	Enumerated	
APN-Barring-Type			Grouped	
310 MUAN-Direct-IP-Access				
State Stat				29.234 [6]
Routing-Policy IPFilterRule				
Max-Requested-Bandwidth				
Charging-Characteristics Integer				
State Charging-Nodes Grouped				
Primary-OCS-Charging-Function-Name DiameterIdentity				
33 33 34 36 37 37 37 37 38 38 36 37 38 38 38 38 38 38 38				
Note 1: The AVP codes from 320 to 399 are reserved for TS 29.234 Note 2: The 3GPP-AAA-Server-Name definition is moved to TS 29.273 starting from Rel-12. 400				
Note 2: The 3GPP-AAA-Server-Name definition is moved to TS 29.273 starting from Rel-12.	319	Maximum-Number-Accesses	Unsigned32	
A01 GBA-UserSecSettings OctetString				
				1
AVE-Hostname				
A03 GAA-Service-Identifier CotetString				
ME-Key-Material				
406 UICC-Key-Material OctetString				
407 GBA U-Awareness-Indicator Enumerated 408 BootstrapInfoCreationTime Time Time 1400 GUSS-Timestamp Time 1410 GBA-Type Enumerated 29,109 [7] 1411 UE-Id OctetString 1412 UE-Id-Type Enumerated 1413 UICC-App-Label OctetString Enumerated 1414 UICC-ME Enumerated 1415 Requested-Key-Lifetime Time 1416 Private-Identity-Request Enumerated 1417 GBA-Push-Info OctetString 1418 NAF-SA-Identifier OctetString 1419 Security-Feature-Response OctetString 1419 Security-Feature-Response OctetString OctetString 1419 Security-Feature-Response OctetString OctetS	405	IIICC-Key-Material		
410 GBA-Type	407	GBA_U-Awareness-Indicator		
410 GBA-Type			Time	
411 UE-Id OctetString 412 UE-Id-Type Enumerated 413 UICC-App-Label OctetString 414 UICC-ME Enumerated 415 Requested-Key-Lifetime Enumerated 416 Private-Identity-Request Enumerated 417 GBA-Push-Info OctetString 418 NAF-SA-Identifier OctetString 419 Security-Feature-Request OctetString 420 Security-Feature-Response OctetString Note: The AVP codes from 421 to 499 are reserved for TS 29.109 500 Abort-Cause Enumerated 501 Access-Network-Charging-Address Address 502 Access-Network-Charging-Identifier Grouped 503 Access-Network-Charging-Identifier OctetString 504 AF-Application-Identifier OctetString 505 AF-Charging-Identifier OctetString 506 Authorization-Token IPFilterRule 507 Flow-Description IPFilterRule 508 Flow-Grouping Grouped 509 Flow-Number Unsigned32 510 Flows Grouped 511 Flow-Usage Enumerated 513 Specific-				20 400 [7]
412 UE-Id-Type Enumerated 413 UICC-App-Label OctetString 414 UICC-ME Enumerated 415 Requested-Key-Lifetime Time 416 Private-Identity-Request Enumerated 417 GBA-Push-Info OctetString 418 NAF-SA-Identifier OctetString 419 Security-Feature-Request OctetString 420 Security-Feature-Response OctetString Note: The AVP codes from 421 to 499 are reserved for TS 29.109 500 Abort-Cause Enumerated 501 Access-Network-Charging-Address Address 502 Access-Network-Charging-Identifier Grouped 503 Access-Network-Charging-Identifier OctetString 504 AF-Application-Identifier OctetString 505 AF-Charging-Identifier OctetString 506 Authorization-Token OctetString 507 Flow-Description IPFilterRule 509 Flow-Number Unsigned32 510 Flows Grouped 511 Flow-Status Enumerated 512 Flow-Usage Enumerated 513 Specific-Action Enumerated	410	UF-Id		29.109 [7]
413 UICC-App-Label 414 UICC-ME Enumerated 415 Requested-Key-Lifetime Time 416 Private-Identity-Request Enumerated 417 GBA-Push-Info OctetString 418 NAF-SA-Identifier OctetString 419 Security-Feature-Request OctetString 420 Security-Feature-Response Note: The AVP codes from 421 to 499 are reserved for TS 29.109 Note: The AVP codes from 421 to 499 are reserved for TS 29.109 Note: The AVP codes from 421 to 499 are reserved for TS 29.109 Abort-Cause Sol Access-Network-Charging-Address Address OctetString OctetString OctetString OctetString OctetString OctetString Flow-AF-Application-Identifier OctetString OctetString OctetString OctetString Flow-Description IPFilterRule Flow-Description IPFilterRule Flow-Number Unsigned32 Flow-Status Enumerated Flow-Usage Flow-Usage Flow-Usage Flow-Usage Flow-Usage Flow-Usage Flow-merated Flow-Getfice Fire Flow-Benumerated Flow-Usage Flow-Usage Flow-Usage Flow-merated Flow-Benumerated Flow-Benumerated Flow-Usage Flow-Usage Flow-Usage Flow-Usage Flow-merated Flow-Benumerated Flow-Getfice Flow-Usage Flow-Usage Flow-Usage Flow-Usage Flow-Merated Flow-Benumerated Flow-Usage Flow-Usage Flow-Usage Flow-Usage Flow-Merated Flow-Benumerated Flow-Benumera				
415 Requested-Key-Lifetime Time 416 Private-Identity-Request Enumerated 417 GBA-Push-Info OctetString 418 NAF-SA-Identifier OctetString 419 Security-Feature-Request OctetString 420 Security-Feature-Response OctetString Note: The AVP codes from 421 to 499 are reserved for TS 29.109 Enumerated 500 Abort-Cause Enumerated 501 Access-Network-Charging-Address Address 502 Access-Network-Charging-Identifier Grouped 503 Access-Network-Charging-Identifier-Value OctetString 504 AF-Application-Identifier OctetString 505 AF-Charging-Identifier OctetString 506 Authorization-Token OctetString 507 Flow-Description IPFilterRule 508 Flow-Grouping Grouped 509 Flow-Number Unsigned32 501 Flow-Status Enumerated 512 Flow-Usage Enumerated <t< td=""><td>413</td><td>UICC-App-Label</td><td></td><td></td></t<>	413	UICC-App-Label		
416Private-Identity-RequestEnumerated417GBA-Push-InfoOctetString418NAF-SA-IdentifierOctetString429Security-Feature-RequestOctetString420Security-Feature-ResponseOctetStringNote: The AVP codes from 421 to 499 are reserved for TS 29.109500Abort-CauseEnumerated501Access-Network-Charging-AddressAddress502Access-Network-Charging-IdentifierGrouped503Access-Network-Charging-IdentifierOctetString504AF-Application-IdentifierOctetString505AF-Charging-IdentifierOctetString506Authorization-TokenOctetString507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32510FlowsGrouped511Flow-StatusEnumerated512Flow-UsageEnumerated513Specific-ActionEnumerated				
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Note: The AVP codes from 421 to 499 are reserved for TS 29.109 500 Abort-Cause	419	Security-Feature-Request		
500Abort-CauseEnumerated501Access-Network-Charging-AddressAddress502Access-Network-Charging-IdentifierGrouped503Access-Network-Charging-IdentifierOctetString504AF-Application-IdentifierOctetString505AF-Charging-IdentifierOctetString506Authorization-TokenOctetString507Flow-DescriptionIPFilterRule508Flow-GroupingGrouped509Flow-NumberUnsigned32510FlowsGrouped511Flow-StatusEnumerated512Flow-UsageEnumerated513Specific-ActionEnumerated			Octerstring	
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505 AF-Charging-Identifier OctetString 29.209 506 Authorization-Token OctetString [8], 507 Flow-Description IPFilterRule 1[17], 508 Flow-Grouping Grouped 29.211 509 Flow-Number Unsigned32 [18] 510 Flows Grouped 511 511 Flow-Status Enumerated 512 Flow-Usage Enumerated 513 Specific-Action Enumerated	503	Access-Network-Charging-Identifier-Value	OctetString	
505 AF-Charging-Identifier OctetString [8], 506 Authorization-Token OctetString 29.211 507 Flow-Description IPFilterRule [17], 508 Flow-Grouping Grouped 29.214 509 Flow-Number Unsigned32 [18] 510 Flows Grouped [18] 511 Flow-Status Enumerated 512 Flow-Usage Enumerated 513 Specific-Action Enumerated				20,200
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508 Flow-Grouping Grouped 29.214 509 Flow-Number Unsigned32 [18] 510 Flows Grouped 511 Flow-Status Enumerated 512 Flow-Usage Enumerated 513 Specific-Action Enumerated				
510 Flows Grouped 511 Flow-Status Enumerated 512 Flow-Usage Enumerated 513 Specific-Action Enumerated				29.214
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512Flow-UsageEnumerated513Specific-ActionEnumerated				-
513 Specific-Action Enumerated				

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

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

740	Land Time Zama Indication	Farmanata d	
	Local-Time-Zone-Indication	Enumerated	4
	UDR-Flags	Unsigned32	_
	Call-Reference-Info Call-Reference-Number	Grouped	4
	AS-Number	OctetString	-
	The AVP codes from 723 to 799 are reserved for TS 29.329.	OctetString	
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
	Event-Type	Grouped	
	SIP-Method	UTF8String	=
	Event	UTF8String	=
	Content-Type	UTF8String	=
	Content-Type Content-Length	Unsigned32	-
	Content-Disposition	UTF8String	-
	Role-of-Node	Enumerated	7
	User-Session-Id	UTF8String	-
	Calling-Party-Address	UTF8String	-
	Called-Party-Address	UTF8String	-
	Time-Stamps	Grouped	-
	SIP-Request-Timestamp	Time	7
	SIP-Response-Timestamp	Time	7
	Application-Server	UTF8String	7
	Application-provided-called-party-address	UTF8String	7
	Inter-Operator-Identifier	Grouped	7
	Originating-IOI	UTF8String	7
840	Terminating-IOI	UTF8String	7
	IMS-Charging-Identifier	UTF8String	7
	SDP-Session-Description	UTF8String	
843	SDP-Media-Component	Grouped	1
844	SDP-Media-Name	UTF8String	
845	SDP-Media-Description	UTF8String	
	CG-Address	Address	
	GGSN-Address	Address	
	Served-Party-IP-Address	Address	
	Authorized-QoS	UTF8String	
	Application-Server-Information	Grouped	
	Trunk-Group-Id	Grouped	32.299 [5]
	Incoming-Trunk-Group-Id	UTF8String	02.200 [0]
	Outgoing-Trunk-Group-Id	UTF8String	_
	Bearer-Service	OctetString	-
	Service-Id	UTF8String	_
	Associated-URI	UTF8String	_
	Charged-Party	UTF8String	_
	PoC-Controlling-Address	UTF8String	→
	PoC-Group-Name	UTF8String	_
	Cause Code	Grouped	-}
	Cause-Code Node-Functionality	Integer32 Enumerated	
	Service-Specific-Data	UTF8String	
	Originator	Enumerated	
	PS-Furnish-Charging-Information	Grouped	
	PS-Free-Format-Data	OctetString	+
	PS-Append-Free-Format-Data	Enumerated	
	Time-Quota-Threshold	Unsigned32	
	Volume-Quota-Threshold	Unsigned32	┪ !
	Trigger-Type	Enumerated	┪ !
	Quota-Holding-Time	Unsigned32	7
	Reporting-Reason	Enumerated	7
	Service-Information	Grouped	7
	PS-Information	Grouped	7
	Reserved	-	\neg
	IMS-Information	Grouped	
	MMS-Information	Grouped	
	LCS-Information	Grouped	
	PoC-Information	Grouped	
880	MBMS-Information	Grouped	
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881 Dutas-Consumption-Time		Ta			T
B83 PoC-Server-Role					
B84 PoC-Session-Type					
888 Number-Ol-Participants Unsigned32 888 Originator-Address Grouped 887 Participants-Involved UTF8String 888 Expires Unsigned32 889 Message-Body Grouped 889 Reserved 881 Reserved 882 Reserved 883 Reserved 883 Reserved 884 Reserved 885 Reserved 886 Reserved 887 Address-Data UTF8String 888 Address-Data UTF8String 889 Address-Data UTF8String 889 Address-Data UTF8String 889 Address-Data UTF8String 889 Address-Data UTF8String 890 Address-Data UTF8String 891 Address-Data UTF8String 892 Address-Type Enumerated 893 Address-Data UTF8String 894 Address-Data UTF8String 895 Address-Data UTF8String 896 Reserved - 897 Address-Data UTF8String 898 Address-Data UTF8String 899 Address-Type Enumerated 890 Resulted-MBMS-Beare-Capabilities UTF8String 890 Resulted-MBMS-Beare-Capabilities UTF8String 890 MBMS-Session-Dutation Unsigned32 890 MBMS-Session-Indentity OctotString 890 MBMS-Session-Indentity Unsigned32 890 MBMS-Required-OoS UTF8String 890 MBMS-Session-Indentity OctotString 890 MBMS-Required-OoS Unsigned32 8			Enumer	ated	
Separate Grouped			Enumer	ated	
887 Participants-Involved	885	Number-Of-Participants	Unsigne	ed32	
887 Participants-Involved	886	Originator-Address	Group	ed	
888 (Expires Unsigned32 880 (Message-Body) Grouped 890 (Reserved) - 891 (Reserved) - 892 (Reserved) - 893 (Reserved) - 894 (Reserved) - 895 (Reserved) - 896 (Reserved) - 897 (Address-Data) UTF8String 898 (Address-Data) UTF8String 899 (Address-Data) Grouped 899 (Address-Domain) Grouped 899 (Address-Domain) Grouped 890 (Address-Domain) Grouped 890 (Address-Type) Enumerated 900 (MBMS-StarStop-Indication) Enumerated 901 (MBMS-Session-Duration) Unsigned32 902 (MBMS-Session-Duration) Unsigned32 903 (MBMS-Session-Duration) Unsigned32 905 (Alternative-APN) UTF8String 906 (MBMS-Session-Indication) Enumerated 907 (MBMS-2G-3G-Indicator) Enumerated 908 (MBMS-Session-Indicatify Repetition-Number) Unsigned32 910 (MBMS-Endect-Case) UTF8Str					Ī
B890 Reserved -					1
B90 Reserved -					
892 Reserved			Group	,ou	4
1992 Reserved -					1
B894 Reserved			-		1
B84 Reserved			-		4
Bass Reserved -			-		<u> </u>
B98 Reserved			-		<u> </u>
B87 Address-Data UTF8String B88 Address-Domain Grouped B89 Address-Type Enumerated			-		<u></u>
B98	896	Reserved	-		
B39 Address-Type	897	Address-Data	UTF8S	tring	
DOU TMG OctectString OctetString OctetSt	898	Address-Domain	Group	ed	
DOU TMG OctectString OctetString OctetSt	899	Address-Type	Enumer	ated	Ī
901 Required-MBMS-Bearer-Capabilities		1			1
901 Required-MBMS-Bearer-Capabilities	900	TMGI	OctectS	strina	
903 MBMS-StartStop-Indication					†
903 MBMS-Service-Area OctectString 904 MBMS-Session-Duration Unsigned32 905 Alternative-APN UTF8String 906 MBMS-Service-Type Enumerated 907 MBMS-2G-3G-Indicator Enumerated 908 MBMS-2G-3G-Indicator Enumerated 909 MBMS-2G-3G-Indicator UTF8String 909 RAI UTF8String 900 Additional-MBMS-Trace-Info OctetString 901 Additional-MBMS-Trace-Info OctetString 901 Additional-MBMS-Trace-Info OctetString 901 Additional-MBMS-Trace-Info OctetString 901 MBMS-Session-Identity-Repetition-Number Unsigned32 912 MBMS-Session-Identity-Repetition-Number Unsigned32 913 MBMS-Required-OoS UTF8String 914 MBMS-Counting-Information Enumerated 915 MBMS-User-Data-Mode-Indication Enumerated 916 MBMS-User-Data-Mode-Indication Enumerated 917 MBMS-GGSN-Address UTF8String 918 MBMS-BMSC-SSM-IP-Address UTF8String 919 MBMS-BMSC-SSM-IP-Address UTF8String 910 MBMS-BMSC-SSM-IP-Address UTF8String 921 CN-IP-Multicast-Distribution Enumerated 922 MBMS-HO-Indicator Enumerated 923 MBMS-Access-Indicator Enumerated 924 MBMS-Access-Indicator Enumerated 925 MBMS-GW-SSM-IP-Address OctetString 926 MBMS-BMSC-SSM-UDP-Port OctetString 927 MBMS-GW-UDP-Port OctetString 928 MBMS-GW-UDP-Port OctetString 928 MBMS-GW-UDP-Port OctetString 932 MBMS-GW-UDP-Port-Indicator Enumerated 933 MBMS-Pata-Transfer-Stop Unsigned32 933 Diagnostic-Info Unsigned32 933 Diagnostic-Info Unsigned32 934 MBMS-Cell-List OctetString O					+
MBMS-Session-Duration					_
905 Alternative-APN					4
906 MBMS-Service-Type					1
907 MBMS-2G-3G-Indicator					<u> </u>
909 MBMS-Session-Identity					
909 RAI					
910 Additional-MBMS-Trace-Info OctetString 911 MBMS-Time-To-Data-Transfer Unsigned32 912 MBMS-Session-Identity-Repetition-Number Unsigned32 913 MBMS-Required-QoS UTF8String 914 MBMS-Gounting-Information Enumerated 915 MBMS-User-Data-Mode-Indication Enumerated 916 MBMS-User-Data-Mode-Indication Enumerated 917 MBMS-GGSN-Address UTF8String 918 MBMS-BMSC-SSM-IP-Address UTF8String 919 MBMS-BMSC-SSM-IP-Address UTF8String 919 MBMS-BMSC-SSM-IP-Address UTF8String 920 MBMS-Flow-Identifier OctetString OctetString 921 CN-IP-Multicast-Distribution Enumerated 922 MBMS-HC-Indicator Enumerated 923 MBMS-Access-Indicator Enumerated 924 MBMS-GW-SSM-IP-Address OctetString 925 MBMS-GW-SSM-IP-Address OctetString 926 MBMS-GW-SSM-IP-Address OctetString 927 MBMS-GW-SSM-IP-Address OctetString 928 MBMS-GW-SSM-IP-Address OctetString 928 MBMS-GW-SSM-IP-Address OctetString 929 MBMS-GW-SSM-IP-Address OctetString 928 MBMS-GW-DP-Port OctetString 929 MBMS-Data-Transfer-Start Unsigned64 930 MBMS-Data-Transfer-Start Unsigned64 931 MBMS-Flags Unsigned32 932 Restart-Counter Unsigned32 932 Restart-Counter Unsigned32 933 Diagnostic-Info Unsigned32 934 MBMS-Cell-List OctetString Octet	908	MBMS-Session-Identity	OctetSt	tring	
910 Additional-MBMS-Trace-Info OctetString 911 MBMS-Time-To-Data-Transfer Unsigned32 912 MBMS-Session-Identity-Repetition-Number Unsigned32 913 MBMS-Required-QoS UTF8String 914 MBMS-Gounting-Information Enumerated 915 MBMS-User-Data-Mode-Indication Enumerated 916 MBMS-User-Data-Mode-Indication Enumerated 917 MBMS-GGSN-Address UTF8String 918 MBMS-BMSC-SSM-IP-Address UTF8String 919 MBMS-BMSC-SSM-IP-Address UTF8String 919 MBMS-BMSC-SSM-IP-Address UTF8String 920 MBMS-Flow-Identifier OctetString OctetString 921 CN-IP-Multicast-Distribution Enumerated 922 MBMS-HC-Indicator Enumerated 923 MBMS-Access-Indicator Enumerated 924 MBMS-GW-SSM-IP-Address OctetString 925 MBMS-GW-SSM-IP-Address OctetString 926 MBMS-GW-SSM-IP-Address OctetString 927 MBMS-GW-SSM-IP-Address OctetString 928 MBMS-GW-SSM-IP-Address OctetString 928 MBMS-GW-SSM-IP-Address OctetString 929 MBMS-GW-SSM-IP-Address OctetString 928 MBMS-GW-DP-Port OctetString 929 MBMS-Data-Transfer-Start Unsigned64 930 MBMS-Data-Transfer-Start Unsigned64 931 MBMS-Flags Unsigned32 932 Restart-Counter Unsigned32 932 Restart-Counter Unsigned32 933 Diagnostic-Info Unsigned32 934 MBMS-Cell-List OctetString Octet	909	RAI	UTF8S	tring	
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934 MBMS-Cell-List OctetString 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 29.212 [19] 1005 Charging-Rule-Name OctetString 1006 Event-Trigger Enumerated			Unsigne	ed32	
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1004Charging-Rule-Base-NameUTF8String29.212 [19]1005Charging-Rule-NameOctetString1006Event-TriggerEnumerated					
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	1002 1003 1004	Charging-Rule-Remove Charging-Rule-Definition Charging-Rule-Base-Name	Grouped Grouped UTF8String	29.212 [19]	
	1002 1003 1004 1005	Charging-Rule-Remove Charging-Rule-Definition Charging-Rule-Base-Name Charging-Rule-Name	Grouped Grouped UTF8String OctetString	29.212 [19]	
1007 Metering-Method Enumerated	1002 1003 1004 1005 1006	Charging-Rule-Remove Charging-Rule-Definition Charging-Rule-Base-Name Charging-Rule-Name Event-Trigger	Grouped Grouped UTF8String OctetString Enumerated	29.212 [19]	
1008 Offline Enumerated	1002 1003 1004 1005 1006	Charging-Rule-Remove Charging-Rule-Definition Charging-Rule-Base-Name Charging-Rule-Name Event-Trigger Metering-Method	Grouped Grouped UTF8String OctetString Enumerated Enumerated	29.212 [19]	

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1009	Online	Enumerated
	Precedence	Unsigned32
	Reporting-Level	Enumerated
	TFT-Filter	IPFilterRule
	TFT-Packet-Filter-Information	Grouped
	ToS-Traffic-Class	OctetString
	QoS-Information	Grouped
	Charging-Rule-Report	Grouped
	PCC-Rule-Status	Enumerated
	Bearer-Identifier	OctetString
	Bearer-Operation	Enumerated
	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
	QoS-Class-Identifier	Enumerated
	QoS-Negotiation	Enumerated
	QoS-Upgrade	Enumerated
	Rule-Failure-Code	Enumerated
1032		Enumerated
1033		Grouped
	Allocation-Retention-Priority	Grouped
	CoA-IP-Address	Address
	Tunnel-Header-Filter	IPFilterRule
	Tunnel-Header-Length	Unsigned32
	Tunnel-Information	Grouped
	CoA-Information	Grouped
	APN-Aggregate-Max-Bitrate-DL	Unsigned32
	APN-Aggregate-Max-Bitrate-UL	Unsigned32
1041	Revalidation-Time	Time
1043	Rule-Activation-Time	Time
1044	Rule-DeActivation-Time	Time
1045		Enumerated
	Priority-Level	Unsigned32
	Pre-emption-Capability	Enumerated
1048	Pre-emption-Vulnerability	Enumerated
	Default-EPS-Bearer-QoS	Grouped
	AN-GW-Address	Address
	QoS-Rule-Install	Grouped
	QoS-Rule-Remove	Grouped
	QoS-Rule-Definition	Grouped
1054	QoS-Rule-Name	OctetString
	QoS-Rule-Report	Grouped
	Security-Parameter-Index	OctetString
1057	(E)	
	Flow-Label	OctetString
1058	Flow-Information	Grouped
1058 1059	Flow-Information Packet-Filter-Content	Grouped IPFilterRule
1058 1059	Flow-Information	Grouped
1058 1059 1060	Flow-Information Packet-Filter-Content	Grouped IPFilterRule
1058 1059 1060 1061	Flow-Information Packet-Filter-Content Packet-Filter-Identifier	Grouped IPFilterRule OctetString
1058 1059 1060 1061 1062	Flow-Information Packet-Filter-Content Packet-Filter-Identifier Packet-Filter-Information	Grouped IPFilterRule OctetString Grouped
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1076 Routing-Rule-Identifilar CotelString 1078 Routing-Rule-Identifilar CotelString 1078 Routing-Filter Grouped 1079 Routing-Packdress Address 1080 Flow-Direction Enumerated 1081 Routing-Rule-Install Grouped 1082 Credit-Management-Status Unsigned32 1086 Redirect-Information Grouped 1086 Redirect-Information Grouped 1087 ITDF-Information Grouped 1088 ITDF-Application-Identifier OctelString 1089 ITDF-Application-Identifier OctelString 1089 ITDF-Destination-Realm DiameterIdentity 1090 ITDF-Destination-Realm DiameterIdentity 1091 ITDF-IP-address Address 1092 ADC-Rule-Install Grouped 1093 ADC-Rule-Remove Grouped 1094 ADC-Rule-Base-Name UTF8String 1096 ADC-Rule-Base-Name UTF8String 1096 ADC-Rule-Remove Grouped 1098 ADC-Rule-Remove Grouped 1098 ADC-Rule-Base-Name UTF8String 1096 ADC-Rule-Remove Grouped 1098 ADC-Rule-Base-Name UTF8String 1099 PS-to-S-Session-Continuity Enumerated 1098 PS-to-S-Session-Continuity Enumerated 1099 PS-to-S-Session-Continuity Enumerated 1001 Served-Loders UTF8String 1100 Served-Address Grouped 1100 Value-Report Enumerated 1100 Result-Recipient-Address Grouped 1100 Result-Recipient-Address Grouped 1101 Recipient-Address UTF8String 1102 (VAS-ID UTF8String 1103 Routeing-Address UTF8String 1104 Recipient-Address UTF8String 1105 Routein-Address UTF8String 1106 Result-Recipient-Address UTF8String 1107 Routeing-Address UTF8String 1108 Routein-Address UTF8String 1109 Routein-Address UTF8String 1100 Routein-Address UTF8String 1101 Routein-Address UTF8String 1102 (WAS-Doutein-Utf8String UTF8String 1103 Routein-Address UTF8String 1104 Sender-Visibility Enumerated 1105 Routein-Address UTF8String 1106 Result-Recipient-Address UTF8String 1107 Routein-Address UTF8String 1108 Routein-Address UTF8String 1109 Routein-Address UTF8String 1110 Routein-Address UTF8String 1111 Sistus-Code UTF8String 1112		1 -	
1078 Routing-Filter	1076 Routing-Rule-Definition	Grouped	
1079 Routing-IP-Address	1077 Routing-Rule-Identifier	OctetString	
1080 Flow-Direction	1078 Routing-Filter	Grouped	
1080 Flow-Direction	1079 Routing-IP-Address	Address	
Total Grouped			
1092 Credit-Management-Status			
1085 Redirect-Information			
1086 Redirect-Support			
1087 TDF-Information			
1088 TDF-Application-Identifier			
1099 TDF-Destination-Host			
1090 TDF-Destination-Realm	1088 TDF-Application-Identifier	OctetString	
TDF-IP-address	1089 TDF-Destination-Host	DiameterIdentity	
TDF-IP-address	1090 TDF-Destination-Realm	DiameterIdentity	
1092 ADC-Rule-Install Grouped			
1093 ADC-Rule-Remove			
1095 ADC-Rule-Definition			
1095 ADC-Rule-Base-Name			
ADC-Rule-Name			
1098 Application-Detection-Information Grouped			
1098 PS-to-CS-Session-Continuity Enumerated			
Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212		Grouped	
Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212	1098 Application-Detection-Information	Grouped	
Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212			
1100 Served-User-Identity			
1101 VASP-ID		Groupe	
1102 VAS-ID			
1103			
1104 Sender-Address		U	
1105 Initial-Recipient-Address Grouped Result-Recipient-Address Grouped Unsigned32 1107 Sequence-Number Unsigned32 1108 Recipient-Address UTF8String 1109 Routeing-Address UTF8String 1110 Originating-Interface Enumerated 1111 Delivery-Report Enumerated 1111 Delivery-Report Enumerated 1112 Read-Reply Enumerated 1113 Sender-Visibility Enumerated 1114 Service-Key UTF8String 1115 Billing-Information UTF8String 1116 Status Grouped UTF8String 1117 Status-Code UTF8String 1118 Status-Text UTF8String 1118 Status-Text UTF8String 1200 Domain-Name UTF8String 1201 Recipient-Address Grouped 1202 Submission-Time Time Time 1203 MM-Content-Type Grouped 1204 Type-Number Enumerated 1205 Additional-Type-Information UTF8String 1206 Content-Size Unsigned32 1207 Additional-Content-Information Grouped 1208 Addressee-Type Enumerated 1209 Priority Enumerated 1210 Message-Class Grouped 1211 Message-Type Enumerated 1212 Message-Class Grouped 1213 Message-Class Grouped 1214 Class-Identifier Enumerated 1215 Token-Text UTF8String 1216 Delivery-Report-Requested Enumerated 1216 Delivery-Report-Requested Enumerated 1216 Delivery-Report-Requested Enumerated 1218 Applic-Info UTF8String 1219 Aux-Applic-Info UTF8String 1210 Aux			
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1108 Recipient-Address	1106 Result-Recipient-Address	Grouped	
1108 Recipient-Address	1107 Sequence-Number	Unsigned32	
1109			
1110 Originating-Interface			29 140 [16]
1111 Delivery-Report			20.110 [10]
1112 Read-Reply			
1113 Sender-Visibility			
1114 Service-Key			
1115 Billing-Information			
1116 Status			
1117 Status-Code	1115 Billing-Information	UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	1116 Status	Grouped	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name 1201 Recipient-Address	1117 Status-Code	UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140 1200 Domain-Name 1201 Recipient-Address		<u> </u>	
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1213 Message-ClassGrouped1214 Class-IdentifierEnumerated1215 Token-TextUTF8String1216 Delivery-Report-RequestedEnumerated1217 AdaptationsEnumerated1218 Applic-IDUTF8String1219 Aux-Applic-InfoUTF8String1220 Content-ClassEnumerated			
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1215 Token-TextUTF8String1216 Delivery-Report-RequestedEnumerated1217 AdaptationsEnumerated1218 Applic-IDUTF8String1219 Aux-Applic-InfoUTF8String1220 Content-ClassEnumerated			
1216 Delivery-Report-RequestedEnumerated1217 AdaptationsEnumerated1218 Applic-IDUTF8String1219 Aux-Applic-InfoUTF8String1220 Content-ClassEnumerated			
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1217 AdaptationsEnumerated1218 Applic-IDUTF8String1219 Aux-Applic-InfoUTF8String1220 Content-ClassEnumerated		•	
1218 Applic-IDUTF8String1219 Aux-Applic-InfoUTF8String1220 Content-ClassEnumerated			
1219 Aux-Applic-Info UTF8String 1220 Content-Class Enumerated			
1220 Content-Class Enumerated		•	
[1221 DKIVI-Content Enumerated			
	1221 JUKIM-CONTENT	Enumerated	

1222	Read-Reply-Report-Requested	Enumerated	
1223	Reply-Applic-ID	UTF8String	
	File-Repair-Supported	Enumerated	
	MBMS-User-Service-Type	Enumerated	
	Unit-Quota-Threshold	Unsigned32	
	PDP-Address	Address	
	SGSN-Address	Address	
	PoC-Session-Id	UTF8String	
	Deferred-Location-Even-Type	UTF8String	
	LCS-APN	UTF8String	
	LCS-Client-Id	Grouped	
	LCS-Client-Dialed-By-MS	UTF8String	
	LCS-Client-External-ID	UTF8String	
1235	LCS-Client-Name	Grouped	
1236	LCS-Data-Coding-Scheme	UTF8String	
1237	LCS-Format-Indicator	Enumerated	
1238	LCS-Name-String	UTF8String	
	LCS-Requestor-Id	Grouped	
	LCS-Requestor-Id-String	UTF8String	
	LCS-Client-Type	Enumerated	
	Location-Estimate	OctetString	
	Location-Estimate-Type		
		Enumerated	
	Location-Type	Grouped	
	Positioning-Data	UTF8String	
	Reserved		
	PDP-Context-Type	Enumerated	
	MMBox-Storage-Requested	Enumerated	
	Service-Specific-Info	Grouped	
	Called-Asserted-Identity	UTF8String	
1251	Requested-Party-Address	UTF8String	
1252	PoC-User-Role	Grouped	
1253	PoC-User-Role-IDs	UTF8String	
	PoC-User-Role-info-Units	Enumerated	
	Talk-Burst-Exchange	Grouped	
	Service-Generic-Information	Grouped	
	Service-Specific-Type	Unsigned32	
	Event-Charging-TimeStamp	Time	
	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	
1268	Envelope-Reporting	Enumerated	
1269	Envelope-Start-Time	Time	
	Time-Quota-Mechanism	Grouped	
	Time-Quota-Type	Enumerated	
	Early-Media-Description	Grouped	
	SDP-TimeStamps	Grouped	
	SDP-Offer-Timestamp	Time	
		Time	
	SDP-Answer-Timestamp		
	AF-Correlation-Information	Grouped	
	PoC-Session-Initiation-type	Enumerated	
	Offline-Charging	Grouped	
	User-Participating-Type	Enumerated	
	Alternate-Charged-Party-Address	UTF8String	
	IMS-Communication-Service-Identifier	UTF8String	
	Number-Of-Received-Talk-Bursts	Unsigned32	
1283	Number-Of-Talk-Bursts	Unsigned32	
	Received-Talk-Burst-Time	Unsigned32	
	Received-Talk-Burst-Volume	Unsigned32	
	Talk-Burst-Time	Unsigned32	
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1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party Note: The AVP codes from 1289 to 1299 are reserved for TS 32.299	UTF8String	
1300 PC5-Radio-Technology	Enumerated	
1301 RAN-End-Time	Time	
1302 RAN-Secondary-RAT-Usage-Report	Grouped	
1303 RAN-Start-Time	Time	
1304 Secondary-RAT-Type	OctetString	
1305 Civic-Address-Information	UTF8String	
1306 WLAN-Operator-Id	Grouped	
1307 WLAN-Operator-Name	UTF8String	
1308 WLAN-PLMN-Id	UTF8String	
1309 API-Content	UTF8String	32.299 [5]
1310 API-Direction	Enumerated	52.255 [5]
1311 API-Identifier	OctetString	
1312 API-Invocation-Timestamp	Time	
1313 API-Result-Code	Unsigned32	
1314 API-Size	Unsigned64	
1315 API-Network-Service-Node	Enumerated	
1316 Exposure-Function-API-Information 1317 SCEF-Address	Grouped Address	
1317 SCEF-Address	Unsigned32	
1319 TTRI	Unsigned32	
Note: The AVP codes from 1320 to 1399 are reserved for TS 32.229.	Onsignedoz	
1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	
1403 Software-Version	UTF8String	
1404 QoS-Subscribed	UTF8String	
1405 ULR-Flags	Unsigned32	
1406 ULA-Flags	Unsigned32	
1407 Visited PLMN Id	OctetString	
1408 Requested-EUTRAN-Authentication-Info	Grouped	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped	
1410 Number-Of-Requested-Vectors	Unsigned32	
1411 Re-Synchronization-Info	OctetString	
1412 Immediate-Response-Preferred	Unsigned32	
1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector 1416 GERAN-Vector	Grouped	
1417 Network-Access-Mode	Grouped Enumerated	
1418 HPLMN-ODB	Enumerated	
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	29.272 [21]
1421 DSR-Flags	Unsigned32	_0[]
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
1426 Access-Restriction-Data	Unsigned32	
1427 APN-OI-Replacement	UTF8String	
1428 All-APN-Configurations-Included-Indicator	Enumerated	
1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile	Grouped	
1432 VPLMN-Dynamic-Address-Allowed	Enumerated	
1433 STN-SR	OctetString	
1434 Alert-Reason	Enumerated	
1435 AMBR	Grouped	
1436 CSG-Subscription-Data	Grouped	
1437 CSG-Id 1438 PDN-GW-Allocation-Type	Unsigned32 Enumerated	
1439 Expiration-Date	Time	
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32	
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1441 IDA-Flags	Unsigned32	
1442 PUA-Flags	Unsigned32	
1443 NOR-Flags	Unsigned32	
1444 User-Id	UTF8String	
1445 Equipment-Status	Enumerated	
1446 Regional-Subscription-Zone-Code	OctetString	
1447 RAND	OctetString	
1448 XRES	OctetString	
1449 AUTN	OctetString	
1450 KASME	OctetString	
1451 Reserved	- Cotototining	
1452 Trace-Collection-Entity	Address	
1453 Kc	OctetString	
1454 SRES	OctetString	
1455 Reserved	Octetotring	
1456 PDN-Type	- Faumorated	
	Enumerated	
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated	
1458 Trace-Data	Grouped	
1459 Trace-Reference	OctetString	
1460 Reserved	-	
1461 Reserved		
1462 Trace-Depth	Enumerated	
1463 Trace-NE-Type-List	OctetString	
1464 Trace-Interface-List	OctetString	
1465 Trace-Event-List	OctetString	
1466 OMC-Id	OctetString	
1467 GPRS-Subscription-Data	Grouped	
1468 Complete-Data-List-Included-Indicator	Enumerated	
1469 PDP-Context	Grouped	
1470 PDP-Type	OctetString	
1471 3GPP2-MEID	OctetString	
1472 Specific-APN-Info	Grouped	
1473 LCS-Info	Grouped	
1474 GMLC-Number	OctetString	
1475 LCS-PrivacyException	Grouped	
1476 SS-Code	OctetString	
1477 SS-Status	OctetString	
1478 Notification-To-UE-User	Enumerated	
1479 External-Client	Grouped	
1480 Client-Identity	OctetString	
1481 GMLC-Restriction	Enumerated	
1482 PLMN-Client	Enumerated	
1483 Service-Type	Grouped	
1484 ServiceTypeIdentity	Unsigned32	
1485 MO-LR	Grouped	
1486 Teleservice-List	Grouped	
1487 TS-Code	Enumerated	
1488 Call-Barring-Info	Grouped	
1489 SGSN-Number	OctetString	
1490 IDR-Flags	Unsigned32	
1491 ICS-Indicator	Enumerated	
1492 IMS-Voice-Over-PS-Sessions-Supported	Enumerated	
1493 Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated	
1494 Last-UE-Activity-Time	Time	
1495 EPS-User-State	Grouped	
1496 EPS-Location-Information	Grouped	
1497 MME-User-State	Grouped	
1498 SGSN-User-State	Grouped	
1499 User-State	Enumerated	
1433 USGI*State	Enumerateu	
1500 Non-3GPP-User-Data	Grouped	
1501 Non-3GPP-IP-Access 1502 Non-3GPP-IP-Access-APN	Enumerated	20 272 [20]
	Enumerated	29.273 [20]
	Lnumaratad	
1503 AN-Trusted 1504 ANID	Enumerated 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	-		
1515 Reserved 1516 Full-Network-Name	- OctotCtring		
1517 Short-Network-Name	OctetString 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	ring	
1531 TWAG-CP-Address	Addre		
1532 TWAG-UP-Address	UTF8S1		
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 1539 AAR-Flags	Unsigne Unsigne		
1540 IMEI-Check-In-VPLMN-Result	Unsigne		
1541 ERP-Authorization	Unsigne		
Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273		0002	
Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 30		now defined in 30	SPP TS
29.273 from Rel-12.			
1600 MME-Location-Information	Group	ed	
1601 SGSN-Location-Information	Group	ed	
1602 E-UTRAN-Cell-Global-Identity	OctetSt		
1603 Tracking-Area-Identity	OctetSt		
1604 Cell-Global-Identity	OctetSt		
1605 Routing-Area-Identity	OctetSt		
1606 Location-Area-Identity	OctetSt		
1607 Service-Area-Identity	OctetSt	_	
1608 Geographical-Information	OctetSt		
1609 Geodetic-Information	OctetSt	_	
1610 Current-Location-Retrieved	Enumer		
1611 Age-Of-Location-Information	Unsigne		29.272
1612 Active-APN 1613 SIPTO-Permission	Group		[21]
	Enumer		
1614 Error-Diagnostic 1615 UE-SRVCC-Capability	Enumer Enumer		
1616 MPS-Priority	Unsigne		
1617 VPLMN-LIPA-Allowed	Enumer		
1618 LIPA-Permission	Enumer		
1619 Subscribed-Periodic-RAU-TAU-Timer	Unsigne		
1620 Ext-PDP-Type	OctetSt		
1621 Ext-PDP-Address	Addre		
1622 MDT-Configuration	Group		
1623 Job-Type	Enumer		
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1624 Area-Scope	Grouped
1625 List-Of-Measurements	Unsigned32
1626 Reporting-Trigger	Unsigned32
1627 Report-Interval	Enumerated
1628 Report-Amount	Enumerated
1629 Event-ThresholdRSRP	Unsigned32
1630 Event-ThresholdRSRQ	Unsigned32
1631 Logging-Interval	Enumerated
1632 Logging-Duration	Enumerated
1633 Relay-Node-Indicator	Enumerated
1634 MDT-User-Consent	Enumerated
1635 PUR-Flags	Unsigned32
1636 Subscribed-VSRVCC	Enumerated
1637 Equivalent-PLMN-List	Grouped
1638 CLR-Flags	Unsigned32
1639 UVR-Flags	Unsigned32
1640 UVA-Flags	Unsigned32
1641 VPLMN-CSG-Subscription-Data	Grouped
1642 Time-Zone	UTF8String
1643 A-MSISDN	OctetString
1644 Reserved	-
1645 MME-Number-for-MT-SMS	OctetString
1646 Reserved	-
1647 Reserved	
1648 SMS-Register-Request	Enumerated
1649 Local-Time-Zone	Grouped
1650 Daylight-Saving-Time	Enumerated
1651 GMLC-Info	Grouped
1652 GMLC-Name	DiameterIdentity
1653 GMLC-Realm	DiameterIdentity
1654 Subscription-Data-Flags	Unsigned32
1655 Measurement-Period-LTE	Enumerated
1656 Measurement-Period-UMTS	Enumerated
1657 Collection-Period-RRM-LTE	Enumerated
1658 Collection-Period-RRM-UMTS	Enumerated
1659 Positioning-Method	OctetString
1660 Measurement-Quantity	OctetString
1661 Event-Threshold-Event-1F 1662 Event-Threshold-Event-1I	Integer32
	Integer32
1663 Restoration-Priority 1664 SGs-MME-Identity	Unsigned32
	UTF8String
1665 SIPTO-Local-Network-Permission 1666 Coupled-Node-Diameter-ID	Unsigned32 DiameterIdentity
1667 WLAN-offloadability	Grouped
1668 WLAN-offloadability-EUTRAN	Unsigned32
1669 WLAN-offloadability-UTRAN	Unsigned32
1670 Reset-ID	OctetString
1671 MDT-Allowed-PLMN-Id	OctetString
1672 Adjacent-PLMNs	Grouped
1673 Adjacent-PEMINS 1673 Adjacent-Access-Restriction-Data	Grouped
1674 DL-Buffering-Suggested-Packet-Count	Integer32
1675 IMSI-Group-Id	Grouped
1676 Group-Service-Id	Unsigned32
1677 Group-PLMN-Id	OctetString
1678 Local-Group-Id	OctetString
1679 AIR-Flags	Unsigned32
1680 UE-Usage-Type	Unsigned32
1681 Non-IP-PDN-Type-Indicator	Enumerated
1682 Non-IP-Data-Delivery-Mechanism	Unsigned32
1683 Additional-Context-Identifier	Unsigned32
1684 SCEF-Realm	DiameterIdentity
1685 Subscription-Data-Deletion	Grouped
1686 Preferred-Data-Mode	Unsigned32
1687 Emergency-Info	Grouped
1688 V2X-Subscription-Data	Grouped
1000 12/ Odboonprion Data	Grouped

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	V2X-Permission	Unsigned32	
	PDN-Connection-Continuity	Unsigned32	
	eDRX-Cycle-Length	Grouped	
	eDRX-Cycle-Length-Value	OctetString	
	UE-PC5-AMBR	Unsigned32	
	MBSFN-Area	Grouped	
	MBSFN-Area-ID	Unsigned32	
	Carrier-Frequency	Unsigned32	
	RDS-Indicator	Enumerated	
	Service-Gap-Time	Unsigned32	
	Aerial-UE-Subscription-Information	Unsigned32	
	Broadcast-Location-Assistance-Data-Types	Unsigned64	
	Paging-Time-Window	Grouped	
	Operation-Mode	Unsigned32	
	Paging-Time-Window-Length	OctetString	
	Core-Network-Restrictions	Unsigned32	
	eDRX-Related-RAT	Grouped	
	Interworking-5GS-Indicator	Enumerated	
	The AVP codes from 1707 to 1799 are reserved for TS 29.272.		ı
	SMS-Information	Grouped	
	Data-Coding-Scheme	Integer32	
	Destination-Interface	Grouped	
	Interface-Id	UTF8String	
	Interface-Port	UTF8String	
	Interface-Text	UTF8String	
	Interface-Type	Enumerated	
	SM-Message-Type	Enumerated	
	Originating-SCCP-Address	Address	
	Originator-Interface	Grouped	
	Recipient-SCCP-Address	Address	
	Reply-Path-Requested	Enumerated	
	SM-Discharge-Time	Time	
	SM-Protocol-ID	OctetString	
	SM-Status SM-Status	OctetString	
	SM-User-Data-Header	OctetString	
	SMS-Node	Enumerated	
	SMSC-Address	Address	
	Client-Address	Address	
	Number-of-Messages-Sent	Unsigned32	
	Low-Balance-Indication	Enumerated	
	Remaining-Balance	Grouped	
	Refund-Information	OctetString	32.299 [5]
	Carrier-Select-Routing-Information	UTF8String	
	Number-Portability-Routing-Information	UTF8String	
	PoC-Event-Type	Enumerated	
	Recipient-Info	Grouped	
	Originator-Received-Address	Grouped	
	Recipient-Received-Address	Grouped	
	SM-Service-Type	Enumerated	
	MMTel-Information	Grouped	
	MMTel-Sservice-Type	Unsigned32	
	Service-Mode	Unsigned32	
	Subscriber-Role	Enumerated	
	Number-Of-Diversions	Unsigned32	
	Associated-Party-Address	UTF8String	
	SDP-Type	Enumerated	
	Change-Condition	Integer32	
	Change-Time	Time	
	Diagnostics	Integer32	
	Service-Data-Container	Grouped	
	Start-Time	Time	
	Stop-Time	Time	
	Time-First-Usage	Time	
	Time-Last-Usage	Time	
12015	Time-Usage	Unsigned32	l

2046 Traffic-Data-Volumes	Grouped	
2047 Serving-Node-Type	Enumerated	
2048 Supplementary-Service	Grouped	
2049 Participant-Action-Type	Enumerated	
2050 PDN-Connection-Charging-ID	Unsigned32	
2051 Dynamic-Address-Flag	Enumerated	
2052 Accumulated-Cost	Grouped	
2053 AoC-Cost-Information	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.		T
2100 reserved	-	
2101 Application-Server-ID	UTF8String	
2102 Application-Service-Type	Enumerated	
2103 Application-Session-ID	Unsigned32	
2104 Delivery-Status	UTF8String	
2105 reserved	-	
2106 reserved	-	
2107 reserved	-	
2108 reserved	-	
2108 reserved 2109 reserved	-	32.299 [5]
2108 reserved 2109 reserved 2110 IM-Information	- - Grouped	32.299 [5]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded	- - Grouped Unsigned32	32.299 [5]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent	- Grouped Unsigned32 Unsigned32	32.299 [5]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded	- Grouped Unsigned32 Unsigned32 Unsigned32	32.299 [5]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent	- Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	32.299 [5]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information	- Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped	32.299 [5]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID	- Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String	32.299 [5]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID	- Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String	32.299 [5]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code	- Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String	32.299 [5]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299.	- Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated	32.299 [5]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info	- Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped	32.299 [5]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Exploded 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info	- Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped	32.299 [5]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Inforcement-Info 2202 Subsession-Id	- Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32	32.299 [5]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Inforcement-Info 2202 Subsession-Id 2203 Subsession-Operation	- Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated	32.299 [5]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Inforcement-Info 2202 Subsession-Operation 2204 Multiple-BBERF-Action	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated	29.215
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Id 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated Enumerated OctetString	
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Id 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated Enumerated Enumerated Enumerated	29.215
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Id 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated Enumerated Enumerated DiameterIdentity	29.215
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Id 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address 2208 DRA-Binding	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated Enumerated Enumerated Enumerated	29.215
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Id 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address 2208 DRA-Binding Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215.	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated Enumerated Enumerated DiameterIdentity	29.215
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Id 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address 2208 DRA-Binding Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. 2300 reserved	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated Enumerated DiameterIdentity Enumerated	29.215
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address 2208 DRA-Binding Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. 2300 reserved 2301 SIP-Request-Timestamp-Fraction	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated Enumerated DiameterIdentity Enumerated Unsigned32	29.215
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Id 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address 2208 DRA-Binding Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated Enumerated DiameterIdentity Enumerated - Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	29.215
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Operation 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address 2208 DRA-Binding Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated Enumerated DiameterIdentity Enumerated - Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated DiameterIdentity Enumerated	29.215
2108 reserved 2109 reserved 2110 lM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Operation 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address 2208 DRA-Binding Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated Enumerated Enumerated Unsigned32 Enumerated Enumerated Unsigned32 Enumerated Unsigned32 Enumerated DiameterIdentity Enumerated - Unsigned32 Unsigned32 Unsigned32 Enumerated OctetString	29.215 [22]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Operation 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address 2208 DRA-Binding Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated Enumerated Insigned32 Enumerated Enumerated Insigned32 Enumerated Insigned32 Enumerated Insigned32 Enumerated Insigned32 Insigne	29.215 [22]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Id 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address 2208 DRA-Binding Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information 2306 Tariff-XML	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated DiameterIdentity Enumerated Unsigned32 Unsigned32 Enumerated DiameterIdentity Enumerated Crouped OctetString Enumerated DiameterIdentity Enumerated Unsigned32 Unsigned32 Unsigned32 Enumerated OctetString Grouped UTF8String	29.215 [22]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Operation 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address 2208 DRA-Binding Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information 2306 Tariff-XML 2307 MBMS GW-Address	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated DiameterIdentity Enumerated Unsigned32 Enumerated DiameterIdentity Enumerated Unsigned32 Enumerated DiameterIdentity Enumerated Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated OctetString Grouped UTF8String Address	29.215
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Operation 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address 2208 DRA-Binding Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information 2306 Tariff-XML 2307 MBMS GW-Address 2308 IMSI-Unauthenticated-Flag	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated DiameterIdentity Enumerated Unsigned32 Enumerated DiameterIdentity Enumerated Unsigned32 Enumerated DiameterIdentity Enumerated Unsigned32 Enumerated Grouped UTF8String Grouped UTF8String Address Enumerated	29.215 [22]
2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent 2113 Total-Number-Of-Messages-Exploded 2114 Total-Number-Of-Messages-Sent 2115 DCD-Information 2116 Content-ID 2117 Content-provider-ID 2118 Charge-Reason-Code Note: The AVP codes from 2119 to 2199 are reserved for TS 32.299. 2200 Subsession-Decision-Info 2201 Subsession-Enforcement-Info 2202 Subsession-Operation 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address 2208 DRA-Binding Note: The AVP codes from 2209 to 2299 are reserved for TS 29.215. 2300 reserved 2301 SIP-Request-Timestamp-Fraction 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag 2304 CUG-Information 2305 Real-Time-Tariff-Information 2306 Tariff-XML 2307 MBMS GW-Address	Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated DiameterIdentity Enumerated Unsigned32 Enumerated DiameterIdentity Enumerated Unsigned32 Enumerated DiameterIdentity Enumerated Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated OctetString Grouped UTF8String Address	29.215 [22]

2311 AoC-Service	Enumerated	
2312 AoC-Service-Obligatory-Type	Grouped	
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	_
2315 Preferred-AoC-Currency 2316 Reserved	Unsigned32	
2317 CSG-Access-Mode	- Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	-
2321 Initial-IMS-Charging-Identifier	UTF8String	
2322 IMS-Emergency-Indicator	Enumerated	
2323 MBMS-Charged-Party	Enumerated	
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.		II.
2400 LMSI	OctetString	
2401 Serving-Node	Grouped	
2402 MME-Name	DiameterIdentity	
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets	Unsigned32	
2405 GMLC-Address	Address	29.173
2406 Additional-Serving-Node	Grouped	[25]
2407 PPR-Address	Address	
2408 MME-Realm	DiameterIdentity	
2409 SGSN-Name	DiameterIdentity	
2410 SGSN-Realm	DiameterIdentity	
2411 RIA-Flags	Unsigned32	
Note: The AVP codes from 2412 to 2499 are reserved for TS 29.173.		
2500 SLg-Location-Type	Enumerated	
2501 LCS-EPS-Client-Name	Grouped	
2502 LCS-Requestor-Name 2503 LCS-Priority	Grouped Unsigned32	_
2503 LCS-Priority 2504 LCS-QoS	Grouped	
2504 LC3-Q03 2505 Horizontal-Accuracy	Unsigned32	
2506 Vertical-Accuracy	Unsigned32	
2507 Vertical-Requested	Enumerated	-
2508 Velocity-Requested	Enumerated	
2509 Response-Time	Enumerated	
2510 Supported-GAD-Shapes	Unsigned32	
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	29.172
2519 Pseudonym-Indicator	Enumerated	[24]
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 2529 UTRAN-GANSS-Positioning-Data	OctetString OctetString	
2530 LRR-Flags	Unsigned32	
2530 LKK-Flags 2531 LCS-Reference-Number	OctetString	
2532 Deferred-Location-Type	Unsigned32	
2533 Area-Event-Info	Grouped	
2534 Area-Definition	Grouped	
2535 Area	Grouped	
2536 Area-Type	Unsigned32	
2537 Area-Identification	Grouped	
		1

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-Location-Requirements	Unsigned32	
2565 Additional-Area	Grouped	
Note: The AVP codes from 2566 to 2599 are reserved for TS 29.172	•	
2600 reserved	-	
2601 IMS-Application-Reference-Identifier	UTF8String	
2602 Low-Priority-Indicator	Enumerated	
2603 IP-Realm-Default-Indicator	Enumerated	32.299 [5]
2604 Local-GW-Inserted-Indicator	Enumerated	JZ.299 [0]
2605 Transcoder-Inserted-Indicator	Enumerated	
2606 PDP-Address-Prefix-Length	Unsigned32	
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299		
2700 Reserved	-	
2701 Transit-IOI-List	UTF8String	
2702 Status-AS-Code	Enumerated	
2703 NNI-Information	Grouped	
2704 NNI-Type	Enumerated	
2705 Neighbour-Node-Address	Address	
2706 Relationship-Mode	Enumerated	
2707 Session-Direction	Enumerated	
2708 From-Address	UTF8String	
2709 Access-Transfer-Information	Grouped	32.299 [5]
2710 Access-Transfer-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	
		29.212
	Address.	
2804 HeNB-Local-IP-Address	Address	[19]
2805 UE-Local-IP-Address	Address	
2805 UE-Local-IP-Address 2806 UDP-Source-Port	Address Unsigned32	
2805 UE-Local-IP-Address	Address	

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	
2819 RAN-NAS-Release-Cause	OctetString	
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	
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	Ground	
	Grouped	
2902 Policy-Counter-Status Poport	UTF8String Grouped	20 240
2903 Policy-Counter-Status-Report	Grouped	29.219
2904 SL-Request-Type 2905 Pending-Policy-Counter-Information	Enumerated	[26]
2906 Pending-Policy-Counter-Information 2906 Pending-Policy-Counter-Change-Time	Grouped Time	
2907 SN-Request-Type	Unsigned32	
Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219.	Unaigheusz	
3000 reserved	-	
3001 Device-Action	- Grouped	
3002 Device-Notification	Grouped	
3003 Trigger-Data	Grouped	
3004 Payload	OctetString	29.368
3005 Action-Type	Enumerated	[27]
	Enumerated	
3006 Priority-Indication 3007 Reference-Number		
COURT IN PIRICE INTERIOR		
3008 Request-Status	Unsigned32 Enumerated	

Topogo ID. III. O. A		
3009 Delivery-Outcome	Enumerated	4
3010 Application-Port-Identifier 3011 Old-Reference-Number	Unsigned32 Unsigned32	+
3012 Feature-Supported-In-Final-Target	Unsigned32 Unsigned32	_
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.	Unsigned32	
3100 IP-SM-GW-Number	OctetString	
3101 IP-SM-GW-Name	DiameterIdentity	
3102 User-Identifier	Grouped	7
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 3112 IP-SM-GW-Realm	UTF8String	_
3113 AESE-Communication-Pattern	DiameterIdentity Grouped	4
3114 Communication-Pattern-Set	Grouped	1
3115 Periodic-Communication-Indicator	Unsigned32	+
3116 Communication-Duration-Time	Unsigned32	†
3117 Periodic-Time	Unsigned32	
3118 Scheduled-Communication-Time	Grouped	
3119 Stationary-Indication	Unsigned32	
3120 AESE-Communication-Pattern-Config-Status	Grouped	
3121 AESE-Error-Report	Grouped	
3122 Monitoring-Event-Configuration	Grouped	
3123 Monitoring-Event-Report	Grouped	
3124 SCEF-Reference-ID	Unsigned32	
3125 SCEF-ID	DiameterIdentity	↓
3126 SCEF-Reference-ID-for-Deletion	Unsigned32	
3127 Monitoring-Type	Unsigned32	4
3128 Maximum-Number-of-Reports 3129 UE-Reachability-Configuration	Unsigned32 Grouped	29.336
3130 Monitoring-Duration	Time	[28]
3131 Maximum-Detection-Time	Unsigned32	[20]
3132 Reachability-Type	Unsigned32	_
3133 Maximum-Latency	Unsigned32	
3134 Maximum-Response-Time	Unsigned32	
3135 Location-Information-Configuration	Grouped	
3136 MONTE-Location-Type	Unsigned32	
3137 Accuracy	Unsigned32	
3138 Association-Type	Unsigned32	
3139 Roaming-Information	Unsigned32	
3140 Reachability-Information	Unsigned32	
3141 IMEI-Change	Unsigned32	
3142 Monitoring-Event-Config-Status	Grouped	
3143 Supported-Service	Grouped	_
3144 Supported-Monitoring-Event	Unsigned64	_
3145 CIR-Flags 3146 Service-Result	Unsigned32 Grouped	_
3147 Service-Result-Code	Unsigned32	_
3148 Reference-ID-Validity-Time	Time	_
3149 Event-handling	Unsigned32	-
3150 NIDD-Authorization-Request	Grouped	†
3151 NIDD-Authorization-Response	Grouped	7
3152 Service-Report	Grouped	1
3153 Node-Type	Unsigned32]
3154 S6t-HSS-Cause	Unsigned32	
3155 Enhanced-Coverage-Restriction	Grouped	
3156 Enhanced-Coverage-Restriction-Data	Grouped	
3157 Restricted-PLMN-List	Grouped	_
3158 Allowed-PLMN-List	Grouped	4
3159 Requested-Validity-Time	Time	

3160 Granted-Validity-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-Monitoring-Event-Report	Grouped	
3166 Group-Monitoring-Event-Report-Item	Grouped	
3167 RIR-Flags	Unsigned32	
3168 Type-Of-External-Identifier	Unsigned32	
3169 APN-Validity-Time	Grouped	
3170 Suggested-Network-Configuration	Grouped	
		
3171 Monitoring-Event-Report-Status	Grouped	
3172 PLMN-ID-Requested	Enumerated	
3173 AdditionalIdentifiers	Grouped	
3174 NIR-Flags	Unsigned32	
3175 Reporting-Time-Stamp	Time	
3176 Group-User-Identifier	Grouped	
3177 NIA-Flags	Unsigned32	
3178 MTC-Provider-Info	Grouped	
3179 MTC-Provider-ID	UTF8String	
Note: The AVP codes from 3180 to 3199 are reserved for TS 29.336.	1 Offing	
	Enumerated	
3200 SM-Delivery-Outcome-T4	Enumerated	00.007
3201 Absent-Subscriber-Diagnostic-T4	Enumerated	29.337
3202 Trigger-Action	Unsigned32	[29]
3203 MTC-Error-Diagnostic	Unsigned32	
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.		
3300 SC-Address	OctetString	
3301 SM-RP-UI	OctetString	
3302 TFR-Flags	Unsigned32	
3303 SM-Delivery- Failure-Cause	Grouped	
3304 SM-Enumerated-Delivery-Failure-Cause	Enumerated	
3305 SM-Diagnostic-Info	OctetString	
		
3306 SM-Delivery-Timer	Unsigned32	
3307 SM-Delivery-Start-Time	Time	
3308 SM-RP-MTI	Enumerated	
3309 SM-RP-SMEA	OctetString	
3310 SRR-Flags	Unsigned32	
3311 SM-Delivery-Not-Intended	Enumerated	
3312 MWD-Status	Unsigned32	
3313 MME-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3314 MSC-Absent-User-Subscriber-Diagnostic-SM	Unsigned32	
3315 SGSN-Absent-User-Subscriber-Diagnostic SM	Unsigned32	
3316 SM-Delivery-Outcome	Grouped	29.338
3317 MME-SM-Delivery-Outcome	Grouped	
		[30]
3318 MSC-SM-Delivery-Outcome	Grouped	
3319 SGSN-SM-Delivery-Outcome	Grouped	
3320 IP-SM-GW-SM-Delivery-Outcome	Grouped	
3321 SM-Delivery-Cause	Enumerated	
3322 Absent-User-Diagnostic-SM	Unsigned32	
3323 RDR-Flags	Unsigned32	
3324 SMSMI-Correlation-ID	Unsigned32	
3325 HSS-ID	UTF8String	
3326 Originating-SIP-URI	UTF8String	
3327 Destination-SIP-URI	UTF8String	-
		
3328 OFR-Flags	Unsigned32	
3329 Maximum-UE-Availability-Time	Time	-
3330 Maximum-Retransmission-Time	Time	_
3331 Requested-Retransmission-Time	Time	
3332 SMS-GMSC-Address	OctetString	
3333 SMS-GMSC-Alert-Event	Unsigned32	
Note: The AVP codes from 3334 to 3399 are reserved for TS 29.338.	<u> </u>	
3400 reserved	_	
3401 Reason-Header	UTF8String	-
	UTF8String	32.299 [5]
	LILEASITING	
3402 Instance-Id 3403 Route-Header-Received	UTF8String	

3404	Route-Header-Transmitted	UTF8String
3405	SM-Device-Trigger-Information	Grouped
3406	MTC-IWF-Address	Address
	SM-Device-Trigger-Indicator	Enumerated
	SM-Sequence-Number	Unsigned32
	SMS-Result	Unsigned32
3410	VCS-Information	Grouped
3411	Basic-Service-Code	Grouped
3412	Bearer-Capability	OctetString
	Teleservice	OctetString
3414	ISUP-Location-Number	OctetString
3415	Forwarding-Pending	Enumerated
3416	ISUP-Release-Cause	Unsigned32
	MSC-Address	OctetString
3418	Network-Call-Reference-Number	OctetString
3419	Start-of-Charging	Time
	VLR-Number	OctetString
3421	CN-Operator-Selection-Entity	Enumerated
3422	ISUP-Cause-Diagnostics	OctetString
3423	ISUP-Cause-Location	Unsigned32
3424	ISUP-Cause-Value	Unsigned32
3425	EPDG-Address	Address
3426	Announcing-UE-HPLMN-Identifier	UTF8String
3427	Announcing-UE-VPLMN-Identifier	UTF8String
	Coverage-Status	Enumerated
3429	Layer-2-Group-ID	OctetString
3430	Monitored-PLMN-Identifier	UTF8String
3431	Monitoring-UE-HPLMN-Identifier	UTF8String
3432	Monitoring-UE-Identifier	UTF8String
3433	Monitoring-UE-VPLMN-Identifier	UTF8String
3434	ProSe-PC3-Control-Protocol-Cause	Integer32
3435	ProSe-PC3-EPC-Control-Protocol-Cause	Integer32
3436	Requested-PLMN-Identifier	UTF8String
3437	Requestor-PLMN-Identifier	UTF8String
3438	Role-Of-ProSe-Function	Enumerated
3439	Usage-Information-Report-Sequence-Number	Integer32
	ProSe-3rd-Party-Application-ID	UTF8String
3441	ProSe-Direct-Communication-Transmission-Data-Container	Grouped
3442	ProSe-Direct-Discovery-Model	Enumerated
	ProSe-Event-Type	Enumerated
3444	ProSe-Function-IP-Address	Address
	ProSe-Functionality	Enumerated
	ProSe-Group-IP-Multicast-Addresses	Address
3447	ProSe-Information	Grouped
3448	ProSe-Range-Class	Enumerated
	ProSe-Reason-For-Cancellation	Enumerated
	ProSe-Request-Timestamp	Time
	ProSe-Role-Of-UE	Enumerated
	ProSe-Source-IP-Address	Address
	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
12462	Radio-Frequency	OctetString
	In	0
3463	Radio-Parameter-Set-Info	Grouped
3463 3464	Radio-Parameter-Set-Values	OctetString
3463 3464 3465	Radio-Parameter-Set-Values Radio-Resources-Indicator	OctetString Integer32
3463 3464 3465 3466	Radio-Parameter-Set-Values Radio-Resources-Indicator Time-First-Reception	OctetString Integer32 Time
3463 3464 3465 3466 3467	Radio-Parameter-Set-Values Radio-Resources-Indicator	OctetString Integer32

Notos	The AVD codes from 2460 to 2400 are recovered for TC 22 200		
	The AVP codes from 3469 to 3499 are reserved for TS 32.299. BMSC-Address	Address	
	BMSC-Port	Unsigned32	
	MBMS-Bearer-Event	Unsigned32	
	MBMS-Bearer-Event-Notification	Grouped	
	MBMS-Bearer-Request	Grouped	
	MBMS-Bearer-Response	Grouped	
3506	MBMS-Bearer-Result	Unsigned32	
	MBMS-Start-Time	Time	
3508	Radio-Frequency	Unsigned32	
	TMGI-Allocation-Request	Grouped	
	TMGI-Allocation-Response	Grouped	
	TMGI-Allocation-Result	Unsigned32	
	TMGI-Deallocation-Request	Grouped	-
	TMGI-Deallocation-Response	Grouped	→
	TMGI-Deallocation-Result	Unsigned32	→
	TMGI-Expiry	Grouped	29.468
	TMGI-Number MB2U-Security	Unsigned32	[31]
	Local-M1-Information	Unsigned32 Grouped	-
	Local-MB2-U-Information	Grouped	-
	MBMS-eNB-IP-Multicast-Address	Address	
	MBMS-eNB-IPv6-Multicast-Address	Address	-
	MBMS-GW-SSM-IP-Address	Address	
	MBMS-GW-SSM-IPv6-Address	Address	7
	Common-Tunnel-Endpoint-Identifier	OctetString	7
	FEC-Request	OctetString	7
	ROHC-Request	Grouped	7
	ROHC-Full-Header-Periodicity	Float32	7
3528	ROHC-Profile	Unsigned32	7
	Userplane-Protocol-Result	Grouped	
	ROHC-Result	Unsigned32	
	FEC-Result	Unsigned32	
	ROHC-Max-CID	Unsigned32	
	The AVP codes from 3533 to 3599 are reserved for TS 29.468.		
	Origin-App-Layer-User-Id	UTF8String	-
	Target-App-Layer-User-Id	UTF8String	_
	ProSe-Function-ID	OctetString	→
	ProSe-Request-Type	Unsigned32	-
	PDUID Application-Data	OctetString UTF8String	-
	Allowed-Suffixes-Number	Unsigned32	29.343
	Monitor-Target	Grouped	[32]
	ProSe-Code-Suffix-Mask	Grouped	
	Suffix-Code	OctetString	-
	Suffix-Mask	OctetString	
	Banned-User-Target	Grouped	-
	Metadata-Indicator	Unsigned32	7
	The AVP codes from 3613 to 3699 are reserved for TS 29.343.	g	1
	ProSe-Subscription-Data	Grouped	
	ProSe-Permission	Unsigned32	7
	ProSe-Allowed-PLMN	Grouped	\rceil ∣
3704	ProSe-Direct-Allowed	Unsigned32	29.344
	UPR-Flags	Unsigned32	[33]
	PNR-Flags	Unsigned32	
	ProSe-Initial-Location-Information	Grouped	_
	Authorized-Discovery-Range	Unsigned32	
	The AVP codes from 3709 to 3799 are reserved for TS 29.344.		
	Reserved	, . 	_
	App-Layer-User-Id	UTF8String	
	Assistance-info	Grouped	29.345
	Assistance-Info-Validity-Timer	Unsigned32	[34]
	Discovery-Type	Unsigned32	
	Filter-Id	OctetString	
3806	MAC-Address	UTF8String	

	T .	1
3807 Match-Report	Grouped	
3808 Operating-Channel	Unsigned32	1
3809 P2P-Features	Unsigned32	1
3810 ProSe-App-Code	UTF8String	1
3811 ProSe-App-Id	UTF8String	1
3812 ProSe-App-Mask	UTF8String	1
3813 ProSe-Discovery-Filter	Grouped	
3814 PRR-Flags	Unsigned32	
3815 ProSe-Validity-Timer	Unsigned32	Ī
3816 Requesting-EPUID	UTF8String	
3817 Targeted-EPUID	UTF8String	1
3818 Time-Window	Unsigned32	†
3819 WiFi-P2P-Assistance-Info	Grouped	†
3820 WLAN-Assistance-Info	Grouped	†
3821 WLAN-Link-Layer-Id	OctetString	†
3822 WLAN-Link-Layer-Id-List	Grouped	†
3823 Location-Update-Trigger	Grouped	+
3824 Location-Update-Event-Type		+
	Unsigned32	1
3825 Change-Of-Area-Type	Grouped	1
3826 Location-Update-Event-Trigger	Unsigned32	1
3827 Report-Cardinality	Enumerated	1
3828 Minimum-Interval-Time	Unsigned32	1
3829 Periodic-Location-Type	Grouped	1
3830 Location-Report-Interval-Time	Unsigned32	1
3831 Total-Number-Of-Reports	Unsigned32	
3832 Validity-Time-Announce	Unsigned32	
3833 Validity-Time-Monitor	Unsigned32	Ī
3834 Validity-Time-Communication	Unsigned32	
3835 ProSe-App-Code-Info	Grouped	1
3836 MIC	OctetString	†
3837 UTC-based-Counter	Unsigned32	†
3838 ProSe-Match-Refresh-Timer	Unsigned32	†
3839 ProSe-Metadata-Index-Mask	OctetString	†
3840 App-Identifier	Grouped	†
3841 OS-ID	OctetString	+
3842 OS-App-ID	UTF8String	+
		+
3843 Requesting-RPAUID	UTF8String	1
3844 Target-RPAUID	UTF8String	1
3845 Target-PDUID	OctetString	1
3846 ProSe-Restricted-Code	OctetString	<u> </u>
3847 ProSe-Restricted-Code-Suffix-Range	OctetString	<u> </u>
3848 Beginning-Suffix	OctetString	1
3849 Ending-Suffix	OctetString	1
3850 Discovery-Entry-ID	Unsigned32	
3851 Match-Timestamp	Time	
3852 PMR-Flags	Unsigned32	
3853 ProSe-Application-Metadata	UTF8String	
3854 Discovery-Auth-Request	Grouped]
3855 Discovery-Auth-Response	Grouped	İ
3856 Match-Request	Grouped	†
3857 Match-Report-Info	Grouped	†
3858 Banned-RPAUID	UTF8String	†
3859 Banned-PDUID	OctetString	†
3860 Code-Receiving-Security-Material	Grouped	1
3861 Code-Sending-Security-Material		+
3862 DUSK	Grouped OctetString	+
		+
3863 DUIK	OctetString	+
3864 DUCK	OctetString	1
3865 MIC-Check-indicator	Unsigned32	1
3866 Encrypted-Bitmask	OctetString	1
3867 ProSe-App-Code-Suffix-Range	OctetString	.
3868 PC5-tech	OctetString	
Note: The AVP codes from 3869 to 3899 are reserved for TS 29.345.		
3900 Reserved		32.299 [5]
2001 Enhanced Diagnostics	Grouped	oz.zəə [0]
3901 Enhanced-Diagnostics	Gloupeu	<u> </u>

Tabash		1
3902 Inter-UE-Transfer	Enumerated	
3903 TWAG-Address	Address	
3904 Announcement-Information	Grouped	
3905 Announcement-Identifier	Unsigned32	
3906 Announcement-Order	Unsigned32	
3907 Variable-Part	Grouped	
3908 Variable-Part-Order	Unsigned32	
3909 Variable-Part-Type	Unsigned32	
3910 Variable-Part-Value	UTF8String	
3911 Time-Indicator	Unsigned32	
3912 Quota-Indicator	Enumerated	
3913 Play-Alternative	Enumerated	
3914 Language	UTF8String	
3915 Privacy-Indicator	Enumerated	
3916 Called-Identity	UTF8String	
3917 Called-Identity-Change	Grouped	
3918 UWAN-User-Location-Info	Grouped	
3919 Monitoring-Event-Configuration-Activity	Integer32	
3920 Monitoring-Event-Report-Data	Grouped	
3921 Monitoring-Event-Information	Grouped	
3922 Monitoring-Event-Functionality	Integer32	
3923 Monitoring-Event-Report-Number	Unsigned32	
3924 Cellular-Network-Information	OctetString	
3925 Related-Change-Condition-Information	Grouped	
	Grouped Grouped	
3926 Related-Trigger 3927 CPDT-Information	Grouped Grouped	\rightarrow
3928 NIDD-Submission	Grouped	
3929 Serving-Node-Identity	DiameterIdentity	
3930 CP-CloT-EPS-Optimisation-Indicator	Enumerated	
3931 SGi-PtP-Tunnelling-Method	Enumerated	
3932 UNI-PDU-CP-Only-Flag	Enumerated	
3933 APN-Rate-Control	Grouped	
3934 APN-Rate-Control-Downlink	Grouped	
3935 APN-Rate-Control-Uplink	Grouped	
3936 Additional-Exception-Reports	Enumerated	
3937 Rate-Control-Max-Message-Size	Unsigned32	
3938 Rate-Control-Max-Rate	Unsigned32	
3939 Rate-Control-Time-Unit	Unsigned32	
3940 SCS-AS-Address	Grouped	
3941 SCS-Address	Address	
3942 SCS-Realm	DiameterIdentity	
Note: The AVP codes from 3943 to 3999 are reserved for TS 32.299.		
4000 Aggregated-Congestion-Info	Grouped	
4001 Aggregated-RUCI-Report	Grouped	
4002 Congestion-Level-Definition	Grouped	
4003 Congestion-Level-Range	Unsigned32	
4004 Congestion-Level-Set-Id	Unsigned32	
4005 Congestion-Level-Value	Unsigned32	
4006 Congestion-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	7
4012 RUCI-Action	Unsigned32	
4013 Extended-eNodeB-ID	OctetString	
Note: The AVP codes from 4014 to 4099 are reserved for TS 29.217.		
4101 Network-Congestion-Area-Report	Grouped	29.153
4102 Ns-Request-Type	Unsigned32	[37]
Note: The AVP codes from 4103 to 4199 are reserved for TS 29.153.		
4201 Network-Area-Info-List	OctetString	
4202 Reference-Id	OctetString	29.154
4203 Transfer-Request-Type	Unsigned32	
4204 Time-Window	Grouped	[38]
4205 Transfer-End-Time	Time	

4206 Transfer-Start-Time	Time	
4207 Transfer-Policy	Grouped	
4208 Transfer-Policy-Id 4209 Number-Of-UEs	Unsigned32	
	Unsigned32	
4210 Access-Network-Reports	Grouped	
4211 Event-Configuration	Grouped	
4212 Event-Configuration-State	Unsigned32	
4213 Event-Configuration-Status	Grouped	
4214 Event-Reporting-Results	Unsigned32	
4215 Event-Reports	Grouped	
4216 Extended-SCEF-Reference-ID	Unsigned64	
Note: The AVP codes from 4217 to 4299 are reserved for TS 29.154.		
4300 Communication-Failure-Information	Grouped	
4301 Cause-Type	Unsigned32	
4302 S1AP-Cause	Unsigned32	
4303 RANAP-Cause	Unsigned32	
4304 GMM-Cause	Unsigned32	
4305 SM-Cause	Unsigned32	
4306 Number-of-UE-Per-Location-Configuration	Grouped	
4307 Number-of-UE-Per-Location-Report	Grouped	
4308 UE-Count	Unsigned32	
4309 BSSGP-Cause	Unsigned32	
4310 Serving-PLMN-Rate-Control	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	
Note: The AVP codes from 4325 to 4399 are reserved for TS 29.128.		
4400 Charging-Per-IP-CAN-Session-Indicator	Enumerated	
4401 Access-Network-Info-Change	Enumerated	
4402 Discoveree-UE-HPLMN-Identifier	UTF8String	
4403 Discoveree-UE-VPLMN-Identifier	UTF8String	
4404 Discoverer-UE-HPLMN-Identifier	UTF8String	
4405 Discoverer-UE-VPLMN-Identifier	UTF8String	
4406 3GPP-PS-Data-Off-Status	Enumerated	00 000 000
4407 Unused-Quota-Timer	Unsigned32	32.299 [5]
4408 Announcing-PLMN-ID	UTF8String	
4409 ProSe-UE-to-Network-Relay-UE-ID	OctetString	
4410 ProSe-Target-Layer-2-ID	OctetString	
4411 Relay-IP-address	Address	
4411 Relay-IF-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	l OTFOSHING	
4500 MCPTT-ID	LITTOCATION	
	UTF8String	
4501 Data-Identification	Grouped	
4502 Data-Identification-Prefix	Unsigned32	
4503 Data-Identification-Flags	Unsigned64	29.283
4504 DPR-Flags	Unsigned32	[39]
4505 DPA-Flags	Unsigned32	[59]
4506 DUR-Flags	Unsigned32 Unsigned32	[29]
	Unsigned32	[39]

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	29.388	
4602 V2X-Notify-Flags	Unsigned32	[40]	
Note: The AVP codes from 4603 to 4799 are reserved for TS 29	.388.		
4700 V2X-Authorization-Data	Grouped	20.200	
4701 V2X-Permission-in-VPLMN	Unsigned32	29.389	
4702 V2X-Application-Server	Grouped	[41]	
Note: The AVP codes from 4703 to 4799 are reserved for TS and TS 29.389.			
		29.561	
		[42]	
Note: The AVP codes from 4800 to 4999 are reserved for TS and TS 29.561.			

8 Experimental result codes

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

8.1 3GPP specific result codes

4509 NDA-Flags	Unsigned32
4510 User-Data-Id	Unsigned32
4511 MC-Service-User-Profile-Data	Grouped
4512 Sequence-Number	Unsigned32
4513 MCVideo-ID	UTF8String
4514 MC-Data-ID	UTF8String

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

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

8.1.1 Informational

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

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

8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

Experimental	Result text	Specified in the TS
Result Code		
2001	DIAMETER_FIRST_REGISTRATION	
2002	DIAMETER_SUBSEQUENT_REGISTRATION	
2003	DIAMETER_UNREGISTERED_SERVICE	29.229 [2]
2004	DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED	
2005	Deprecated value	
Note: The Experime	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.	
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]
Note: The Experime	ental Result Codes from 2022 to 2040 are reserved for the TS 29.061	
		29.109 [7]
	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.	
	DIAMETER_QOS_FLOW_DELETION_INDICATION	29.561 [42]
Note: The Experime	ental Result Codes from 2422 to 2440 are reserved for the TS 29.561.	

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text		Specified in the TS
4100	DIAMETER_USER_DATA_NOT_AVAILABLE		29.329 [4]
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS		
Note: The Experim	ental Result Codes from 4102 to 4120 are reserved for the TS 2	9.329.	
4121	DIAMETER_ERROR_OUT_OF_RESOURCES		29.061 [13]
Note: The Experim	ental Result Codes from 4122 to 4140 are reserved for the TS 2	9.061.	
4141	DIAMETER_PCC_BEARER_EVENT		
4142	DIAMETER_BEARER_EVENT		
4143	DIAMETER_AN_GW_FAILED		29.212 [19]
4144	DIAMETER_PENDING_TRANSACTION		
4145	DIAMETER_UE_STATUS_SUSPEND		
Note: The Experim	ental Result Codes from 4146 to 4160 are reserved for the TS 2	9.212	
			32.299 [5]
Note: The Experim	ental Result Codes from 4161 to 4180 are reserved for the TS 3	2.299.	
	ER_AUTHENTICATION_DATA_UNAVAILABLE		29.272 [21]
	ER_ERROR_CAMEL_SUBSCRIPTION_PRESENT	29.272 [21]	
	ult Codes from 4182 to 4200 are reserved for the TS 29.272.		
4201 DIAMET	ER_ERROR_ABSENT_USER		29.173 [25]
	ult Codes from 4202 to 4220 are reserved for the TS 29.173.		
	ER_ERROR_UNREACHABLE_USER		
	ER_ERROR_SUSPENDED_USER		
4223 DIAMET	ER_ERROR_DETACHED_USER	29.172 [24]	
4224 DIAMET	ER_ERROR_POSITIONING_DENIED		29.172 [24]
4225 DIAMET	ER_ERROR_POSITIONING_FAILED		
	ER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT		
	ult Codes from 4227 to 4240 are reserved for the TS 29.172.		
	ER_ERROR_NO_AVAILABLE_POLICY_COUNTERS		29.219 [26]
	ult Codes from 4242 to 4260 are reserved for the TS 29.219.		
	STED_SERVICE_TEMPORARILY_NOT_AUTHORIZED		29.214 [18]
Note: The Experimental Res	ult Codes from 4262 to 4280 are reserved for the TS 29.214.		

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5011	DIAMETER_ERROR_FEATURE_UNSUPPORTED	
5012	DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUPP ORTED	
Note: The Expe	rimental Result Codes from 5013 to 5020 are reserved for the TS	\$ 29.229.
		32.299 [5]
Note: The Expe	rimental Result Codes from 5021 to 5040 are reserved for the TS	32.299.
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBSC RIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	
Note: The Expe	rimental Result Codes from 5046 to 5060 are reserved for the TS	S 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	20 202 201
5064	DUPLICATED_AF_SESSION	29.209 [8],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.211 [17] ,
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	29.214 [18]
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
5068	TEMPORARY_NETWORK_FAILURE	
Note: The Expe	rimental Result Codes from 5069 to 5080 are reserved for TS 29	.209. TS 29.211
•	ΓS 29.214.	,
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER ERROR USER DATA CANNOT BE MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	00 000 141
5105	DIAMETER_ERROR_TRANSPARENT_DATA	29.329 [4]
	OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	rimental Result Codes from 5109 to 5119 are reserved for the TS	S 29.329.
- 7-	5120 DIAMETED EDDOR START INDICATIO	

5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVIC	
E	5123	DIAMETER_ERROR_SERVICE_AREA

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

5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALID		
Note: The Exp	Note: The Experimental Result Codes from 5404 to 5419 are reserved for the TS 29.109.		
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION		
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]	
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN		
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE		
Note: The Exp	Note: The Experimental Result Codes from 5424 to 5449 are reserved for the TS 29.272.		
5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI		
	ON		
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	20 272 [20]	
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	29.273 [20]	
5453	DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST		
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST		
Note: The Experimental Result Codes from 5455 to 5469 are reserved for the TS 29.273.			
5470 DIAMETED EDDOR CLIRCECCION			

	from 5455 to 5469 are reserved for the TS 29.273.	
5470	DIAMETER_ERROR_SUBSESSION	
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHMEN	29.215 [22]
	T	
Note: The Expe	erimental Result Codes from 5472 to 5489 are reserved for the T	S 29.215.
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET	
	WORK	29.173 [25]
Note: The Expe	erimental Result Codes from 5491 to 5509 are reserved for the T	S 29.173.
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENTI	
	TY	_
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
5512	DIAMETER_ERROR_REQUESTED_RANGE_IS_NOT	
	ALLOWED	29.336 [28]
5513	DIAMETER_ERROR_CONFIGURATION_EVENT_STORAGE	20.000 [20]
	_NOT_SUCCESSFUL	
5514	DIAMETER_ERROR_CONFIGURATION_EVENT_NON_EXIS	
	TANT	
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	
	erimental Result Codes from 5516 to 5529 are reserved for the T	S 29.336.
5530	DIAMETER_ERROR_INVALID_SME_ADDRESS	
5531	DIAMETER_ERROR_SC_CONGESTION	
5532	DIAMETER_ERROR_SM_PROTOCOL	29.337 [29]
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	20.007 [20]
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5535	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDING	
	erimental Result Codes from 5536 to 5549 are reserved for the T	S 29.337.
5550	DIAMETER_ERROR_ABSENT_USER	
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	
5553	DIAMETER_ERROR_ILLEGAL_USER	
5554	DIAMETER_ERROR_ILLEGAL_EQUIPMENT	29.338 [30]
5555	DIAMETER_ERROR_SM_DELIVERY_FAILURE	
5556	DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED	
5557	DIAMETER_ERROR_SERVICE_BARRED	
5558	DIAMETER_ERROR_MWD_LIST_FULL	
	erimental Result Codes from 5559 to 5569 are reserved for the T	
	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
	Experimental Result Codes from 5571 to 5589 are reserved for	tne 15 29.219.
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	4
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	_
5592	DIAMETER_ERROR_PFID_UNKNOWN	4
5593	DIAMETER_ERROR_APP_REGISTER_REJECT	_
5594	DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOWE	
5505	DIAMETER ERROR MAR REQUEST REJECT	-
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	20 242 [22]
5596 5597	DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN DIAMETER ERROR UNKNOWN OR INVALID TARGET S	29.343 [32]
5597	ET	
5598	DIAMETER ERROR MISSING APPLICATION DATA	1
5599	DIAMETER_ERROR_AUTHORIZATION_REJECT	1
5600	DIAMETER_ERROR_DISCOVERY_NOT_PERMITTED	1
5601	DIAMETER_ERROR_TARGET_RPAUID_UNKNOWN	1
5602	DIAMETER_ERROR_INVALID_APPLICATION_DATA	1
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Note: The Experimental Result Codes from 5603 to 5609 are reserved for the TS 29.343.		
5610	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION	
5611	DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]
5612	DIAMETER_ERROR_UE_LOCATION_UNKNOWN	
	erimental Result Codes from 5613 to 5629 are reserved for the TS	3 29.344.
5630	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT	
	ER	
5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_P	
	LMN	
5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE	
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	
5634	DIAMETER_ERROR_PROXIMITY_REJECTED	
5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	29.345 [34]
5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS_ PLMN	29.545 [54]
5637	DIAMETER ERROR PROXIMITY CANCELLED	
5638	DIAMETER ERROR INVALID TARGET PDUID	
5639	DIAMETER_ERROR_INVALID_TARGET_RPAUID	
5640	DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO	
5641	DIAMETER ERROR_INVALID_DISCOVERY_TYPE	
Note: The Expe	erimental Result Codes from 5642 to 5649 are reserved for the TS	3 29.345.
5650	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SERV	
5651	DIAMETER_ERROR_INVALID_EPS_BEARER	
5652	DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAILA	29.128 [36]
3032	BLE	20.120 [00]
5653	DIAMETER ERROR USER TEMPORARILY UNREACHABL	
	E	
Note: The Experimental Result Codes from 5654 to 5669 are reserved for the TS 29.128.		
5670	DIAMETER_ERROR_UNKNKOWN_DATA	29.283 [39]
5671	DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	
Note: The Experimental Result Codes from 5672 to 5689 are reserved for the TS 29.128.		
5690	DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION	29.388 [40]
5691	DIAMETER_ERROR_V2X_NOT_ALLOWED	
Note: The Expe	erimental Result Codes from 5692 to 5709 are reserved for the TS	3 29.388.

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	New
2004-06	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
2004-09	CN#25	NP-040401	002		Correction of the Application-Id code	6.1.0
2004-09	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
2004-12	CN#26	NP-040579	006		Inclusion of missing Cx AVPs	6.2.0
2004-12	CN#26	NP-040580	007	1	Reservation of command code 310	6.2.0
2004-12	CN#26	NP-040579	009	1	Addition of Gmb interface	6.2.0
2004-12	CN#26	NP-040600	010	2	Documenting the Reuse of the 3GPP specific application identifier of Ro for Re on the Charging Interfaces	6.2.0
2004-12	CN#26	NP-040579	011		Gq interface allocations	6.2.0
2004-12	CN#26				Addition of Gx interface	6.2.0
2004-12	CN#27	NP-040379	_	1	WLAN Diameter AVP and result codes	6.3.0
2005-03	CIN#21	NP-050047		1	Allocations for Gx interface	0.3.0
			045		Allocations for Gmb interface	
		NP-050039			Allocations for MMS, MM10 Interface	
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.4.0
2003-00	C1#20		0050	4		0.4.0
2005.00	CT#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	
0005.00	OT#00	CP-050310			Addition of Rx ref. point and renaming of Experimental Result Codes	7.00
2005-09	CT#29				Addition of GUSS timestamp AVP	7.0.0
2005-12	CT#30				Addition of GBA-Type AVP	7.1.0
		CP-050612			Additional Gmb AVP Allocation	
		CP-050612			Reservation of AVP codes for 32.299	
	0.7	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		1	New error indications for the Sh-Subs-Notif procedure	
2006-06	CT#32	CP-060302			S-CSCF reselection removal	7.3.0
2006-09	CT#33			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			Addition of Diameter Error Code for Emergency Purposes	
		CP-060555	0087		Allocation of new AVP codes for Gmb	
					AVP code allocations for Rf and Ro interfaces	
					Allocation of Success Result Code Range for Gi Interface	
2007-03	CT#35				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	
2007-09	CT#37		0102		Application ID for Gx protocol	7.8.0
2007-12	CT#38	CP-070743			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	7
2008-03	CT#39	CP-080015	0109		Correction of reference to TS 29.140	8.1.0
2000-03				 	AVP code reservation for TS 32.299 in Rel-8	7
		TCP-080019	10111			_
		CP-080019 CP-080019				
		CP-080019	0107	1	Wildcarded Public User Identities	
		CP-080019 CP-080191	0107 0112		Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7	
	CT#40	CP-080019 CP-080191 CP-080204	0107 0112 0113	1	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7 Correction on AVP code allocation reservation for TS 32.299	8,2.0
2008-06	CT#40 CT#41	CP-080019 CP-080191 CP-080204 CP-080267	0107 0112 0113 0117	1	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7 Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx	8.2.0
2008-06 2008-09	CT#41	CP-080019 CP-080191 CP-080204 CP-080267 CP-080456	0107 0112 0113 0117 0119	1	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7 Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal	8.2.0 8.3.0
2008-06 2008-09 2008-09	CT#41 CT#41	CP-080019 CP-080191 CP-080204 CP-080267 CP-080456 CP-080460	0107 0112 0113 0117 0119 0121	1 1 1	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7 Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal Support of "Loose-Route" indication from HSS	_
2008-06 2008-09 2008-09 2008-09	CT#41 CT#41 CT#41	CP-080019 CP-080191 CP-080204 CP-080267 CP-080456 CP-080460 CP-080460	0107 0112 0113 0117 0119 0121 0122	1 1 1	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7 Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal Support of "Loose-Route" indication from HSS STaMIP Application Id	_
2008-06 2008-09 2008-09 2008-09 2008-09	CT#41 CT#41 CT#41 CT#41	CP-080019 CP-080191 CP-080204 CP-080267 CP-080456 CP-080460 CP-080463	0107 0112 0113 0117 0119 0121 0122 0123	1 1 1	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7 Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal 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 2008-09 2008-09 2008-09 2008-09	CT#41 CT#41 CT#41 CT#41 CT#41	CP-080019 CP-080191 CP-080204 CP-080267 CP-080456 CP-080460 CP-080463 CP-080463	0107 0112 0113 0117 0119 0121 0122 0123 0124	1 1 1 1	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7 Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal 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	CT#41 CT#41 CT#41 CT#41	CP-080019 CP-080191 CP-080204 CP-080267 CP-080456 CP-080460 CP-080463	0107 0112 0113 0117 0119 0121 0122 0123	1 1 1 1 2	Wildcarded Public User Identities Correction on AVP code allocation reservation for TS 32.299 in Rel-7 Correction on AVP code allocation reservation for TS 32.299 A new Diameter Permanent Failure Code for Gx Emergency Public User Identity Removal 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		0131	1	Handling LCS Subscription Data	8.5.0
2009-03	CT#43	CP-090026			Update for Restoration	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.5.0
2009-03	CT#43	CP-090033			Appld and command code for Zpn	8.5.0
2009-03	CT#43	CP-090024		1	AVP codes for S9 protocol	8.5.0
2009-03	CT#43	CP-090024	0138	1	Diameter AVP Code allocation	8.5.0
2009-03	CT#43	CP-090024		1	Location of Permanent Failure result code range for the S9 application	8.5.0
2009-03	CT#43	CP-090024	0141		AVPs for TS 29.273	8.5.0
2009-03	CT#43	CP-090024	0142	1	Error code allocation for authentication failure	8.5.0
2009-06	CT#44	CP-090299	0129	4	Update of the AVP Codes	8.6.0
					AVP code reservation for TS 32.299	
		CP-090299	0145		Diameter Command Codes for S6a/S6d/S13/S13'	
			0146		Removal of Requesting Node Type from AIR	
		CP-090299	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	0153		Trace Depth per session	
2009-09	CT#45	CP-090557	0148		AVP code range for charging	9.0.0
2009-12	CT#46	CP-090800		1	ICS-Flag	9.1.0
		CP-091032	0156		From GMLC-Address to GMLC-Number	
			0160		Session-Priority AVP	
			0163	2	Introduction of SLh application related AVPs and Experimental Result codes	
			0166		Missing AVP error codes	
		CP-090797	0167	1	Introduction of SLg application related AVPs and Application Identifier	
2010-03	CT#47	CP-100031	0158	1	Wildcarded Public Identity	9.2.0
		CP-100034	0168	1	Correction on AVP code allocation reservation for TS 32.299 in Rel-9	
		CP-100046	0169	1	AVP code allocation for 29.172	
		CP-100036	0172		GPL_U support in TS 29.109	
		CP-100046	0173		Error codes in 29.172 for SLg	
		CP-100048	0174	1	AVPs in 29.272 for TADS support	
		CP-100040			Error codes in 29.272 for Unknown MME	
		CP-100236		4	EPS Subcsriber State and Location Information Request	
		CP-100033			One time notification AVP allocation	
		CP-100046			Addition of the LCS-QoS-Class attribute value	
		CP-100175			Introduction of the LCS-Capabilities-Sets AVP in SLh interface	
2010-06	CT#48	CP-100263		1	AVP Codes for PCC	9.3.0
			0183		EPS state and location retrieval	
		CP-100287	0186		SGmb Application ID	
		CP-100277	0190		New APVs in S6a protocol	
2010-09	CT#49	CP-100463		1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces	9.4.0
		CP-100464			AVP Codes Allocation for PCC	
2010-09	CT#49	CP-100465			SIPTO Permission Indicator	10.0.0
		CP-100466			Location data including only serving node address	
0040.40	OT#50	CP-100466		1	AVP for Update-Eff feature	40.4.0
2010-12	C1#50	CP-100699		4	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	
2011 02	CT#54	CP-100846		1	S6a Error Diagnostic	10.2.0
2011-03	CT#51	CP-110051 CP-110054			PDP-Address correction Essential correction on the value type of the ELP Application AVPs	10.2.0
		CP-110054 CP-110087		2	Minimization of Drive Tests (MDT)	+
		CP-110087 CP-110088			Relay Node Indicator AVPs	+
2011-06	CT#52	CP-110088			Handling of RTR for Emergency Registration	10.3.0
2011-00	01#32	CP-110349 CP-110347			Add AVPs from QSPEC cleanup	10.3.0
		CP-110347 CP-110359	0231	<u>'</u>	MIPv4 security parameters on the STa and S6b interfaces	
		CP-110339			MDT user consent	+
		CP-110360 CP-110370			AVP Code Allocation for Pre-paging	+
	1	CP-110370 CP-110375		1	PUR-Flags AVP	+
		01 110070			AVP code alignment with 29.212	10.4.0
2011-09	CT#53		()236	1.1		10.4.0
2011-09	CT#53	CP-110559			AVP code alignment with 32 299	1
2011-09	CT#53	CP-110559 CP-110555	0239	1	AVP code alignment with 32.299 AVP code alignment with 29.214	
2011-09	CT#53	CP-110559 CP-110555 CP-110554	0239 0244	1	AVP code alignment with 29.214	
2011-09	CT#53	CP-110559 CP-110555 CP-110554 CP-110552	0239 0244 0249	1	AVP code alignment with 29.214 Experimental Result Code Alignment with 29.061	
2011-09	CT#53	CP-110559 CP-110555 CP-110554 CP-110552 CP-110555	0239 0244 0249 0252	1	AVP code alignment with 29.214 Experimental Result Code Alignment with 29.061 Failure code and AVP code alignment with 29.212	
		CP-110559 CP-110555 CP-110554 CP-110552 CP-110555 CP-110722	0239 0244 0249 0252 0257	1 1 2	AVP code alignment with 29.214 Experimental Result Code Alignment with 29.061 Failure code and AVP code alignment with 29.212 Priviledged sender	11.0.0
2011-09	CT#53	CP-110559 CP-110555 CP-110554 CP-110552 CP-110555 CP-110722 CP-110584	0239 0244 0249 0252 0257 0234	1 1 2	AVP code alignment with 29.214 Experimental Result Code Alignment with 29.061 Failure code and AVP code alignment with 29.212 Priviledged sender Add vSRVCC updates to the Diameter AVP code table	11.0.0
		CP-110559 CP-110555 CP-110554 CP-110552 CP-110555 CP-110722 CP-110584 CP-110579	0239 0244 0249 0252 0257 0234 0240	1 1 2	AVP code alignment with 29.214 Experimental Result Code Alignment with 29.061 Failure code and AVP code alignment with 29.212 Priviledged sender Add vSRVCC updates to the Diameter AVP code table AVP code alignment with 32.299	11.0.0
2011-09	CT#53	CP-110559 CP-110555 CP-110554 CP-110552 CP-110555 CP-110722 CP-110584 CP-110579 CP-110555	0239 0244 0249 0252 0257 0234 0240 0253	2 1	AVP code alignment with 29.214 Experimental Result Code Alignment with 29.061 Failure code and AVP code alignment with 29.212 Priviledged sender Add vSRVCC updates to the Diameter AVP code table AVP code alignment with 32.299 AVP code reservation for 29.212	
		CP-110559 CP-110555 CP-110554 CP-110552 CP-110555 CP-110722 CP-110584 CP-110579 CP-110555 CP-110812	0239 0244 0249 0252 0257 0234 0240 0253 0258	2 1	AVP code alignment with 29.214 Experimental Result Code Alignment with 29.061 Failure code and AVP code alignment with 29.212 Priviledged sender Add vSRVCC updates to the Diameter AVP code table AVP code alignment with 32.299 AVP code reservation for 29.212 SWx Restoration AVPs	11.0.0
2011-09	CT#53	CP-110559 CP-110555 CP-110554 CP-110552 CP-110752 CP-110722 CP-110579 CP-110555 CP-110812 CP-110812	0239 0244 0249 0252 0257 0234 0240 0253 0258 0259	2 1	AVP code alignment with 29.214 Experimental Result Code Alignment with 29.061 Failure code and AVP code alignment with 29.212 Priviledged sender Add vSRVCC updates to the Diameter AVP code table AVP code alignment with 32.299 AVP code reservation for 29.212 SWx Restoration AVPs Sy and Sd Application IDs	
2011-09	CT#53	CP-110559 CP-110555 CP-110554 CP-110552 CP-110555 CP-110722 CP-110584 CP-110579 CP-110555 CP-110812	0239 0244 0249 0252 0257 0234 0240 0253 0258 0259 0262	2 1	AVP code alignment with 29.214 Experimental Result Code Alignment with 29.061 Failure code and AVP code alignment with 29.212 Priviledged sender Add vSRVCC updates to the Diameter AVP code table AVP code alignment with 32.299 AVP code reservation for 29.212 SWx Restoration AVPs	

		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#5	CT#57	CP-120481			PS additional number allocation	11.4.0
	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	l-	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	

2044.40	ŀ	CP-140513	0408	-	Identification of the HSS	
	CT#66	CD 140795	0400	1	Editorial: WLAN-offloadability AVP codes added as in CR C4-141648.	12.7.0
2014-12 CT#66	C1#66	CP-140785	0409 0430	_	New AVP for MBMS restoration New Diagnostic-Info AVP for MBMS restoration	12.7.0
			0410	_	WLCP key for WLCP signalling protection	
			0411	_	Reset-ID	
			0416	1	Code definitions for 32.299	
			0428		Removal of I-WLAN AVPs	
			0429		Reference correction	
			0433		Code allocation for 29.212	
			0418		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	_	OFR-Flags AVP code	
045.00	OT#07	CD 450045	0427		P-CSCF Restoration mechanism new error	40.0.0
2015-03	CT#67	CP-150015	0447 0437	-	Renaming of Location-Type AVP Location reporting in emergency 1xSRVCC	12.8.0
			0437	_	AVP codes for GCSE MB2-C	
			0442		New AVPs and range of transient failure result codes in TS 29.214	
			0438		Allocation of code for Authorized-Discovery-Range AVP (TS 29.344)	
			0440		Location Update Trigger	
			0441		AVP codes allocation for Validity related AVPs for TS 29.345	
			0443		Allocation of codes for the Integrity Checks. Aspect AVPs	
015-03	CT#67	CP-150039				13.0.0
015-06	CT#68	CP-150257		1		13.1.0
		CP-150247		<u>-</u>	Wrong CR implementation of CR 0416r1	
		CP-150249			AVP code allocation for 32.299	
		CP-150263		1	AVP codes for Access Restriction Data per PLMN	
015-09	CT#69	CP-150372 CP-150454		-	IP-SM-GW-Realm Subscription data for extended buffering at the SGW	13.2.0
013-09	C1#09	CP-150434		Ε-	Overlapping transaction over S6b	13.2.0
		CP-150453			Addition of IMSI Group Id AVP definition	
		CP-150449		_	Addition of CP parameter AVP definition	
		CP-150431			AVP codes for TS 29.212	
		CP-150456	0471	3	AVP definiton for S6t	
015-12	CT#70	CP-150761		-		13.3.0
		CP-150778			S6t Application ID and Command Codes	
	i			1	Bitmask to inform the SCEF of the Monitoring capabilities	
		CP-150778				
		CP-150778 CP-150778	0490	1	AVP codes for MONTE T6a/b interface	
		CP-150778	0490	1	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data	
		CP-150778 CP-150778 CP-150778	0490 0491	1	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types	
		CP-150778 CP-150778	0490 0491	1	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a	
		CP-150778 CP-150778 CP-150778 CP-150778	0490 0491 0494	1 1 2	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types	
		CP-150778 CP-150778 CP-150778	0490 0491 0494 0501	1 2 1	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration	
		CP-150778 CP-150778 CP-150778 CP-150778	0490 0491 0494 0501 0502	1 1 2 1 2	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access	
		CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778	0490 0491 0494 0501 0502 0475	1 1 2 1 2	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due	
		CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150770 CP-150776	0490 0491 0494 0501 0502 0475 0476	1 2 1 2 1 -	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving	
		CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150770 CP-150776	0490 0491 0494 0501 0502 0475 0476	1 1 2 1 2 1 -	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX	
		CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150770 CP-150776	0490 0491 0494 0501 0502 0475 0476	1 1 2 1 2 1 -	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX – Additional	
		CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776 CP-150776 CP-150776	0490 0491 0494 0501 0502 0475 0476 0497	1 1 2 1 2 1 -	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option	
		CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776 CP-150776 CP-150776 CP-150777	0490 0491 0494 0501 0502 0475 0476 0497 0498	1 1 2 1 2 1 - 1 1	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option Commands and codes for Np protocol	
		CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776 CP-150776 CP-150776 CP-150777 CP-150777	0490 0491 0494 0501 0502 0475 0476 0497 0498	1 1 2 1 2 1 - 1 1 3 1	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option Commands and codes for Np protocol Definition of ProSe-Metadata-Index-Mask	
		CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776 CP-150776 CP-150776 CP-150777 CP-150777	0490 0491 0494 0501 0502 0475 0476 0497 0498	1 1 2 1 2 1 - 1 1 3 1 -	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option Commands and codes for Np protocol Definition of ProSe-Metadata-Index-Mask Addition of AVPs and result-codes	
		CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776 CP-150776 CP-150776 CP-150777 CP-150777 CP-150777 CP-150777 CP-150772 CP-150772	0490 0491 0494 0501 0502 0475 0476 0497 0498 0477 0479 0489 0500	1 1 2 1 2 1 - 1 3 1 -	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option Commands and codes for Np protocol Definition of ProSe-Metadata-Index-Mask Addition of AVPs and result-codes Addition of AVP used in match report procedure for eProSe-Ext-CT	
		CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150770 CP-150776 CP-150776 CP-150776 CP-150777 CP-150772 CP-150772 CP-150772 CP-150772 CP-150772 CP-150772 CP-150772	0490 0491 0494 0501 0502 0475 0476 0497 0498 0477 0479 0489 0500 0481	1 1 2 1 2 1 - 1 1 3 1 - 1	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option Commands and codes for Np protocol Definition of ProSe-Metadata-Index-Mask Addition of AVPs and result-codes Addition of AVP used in match report procedure for eProSe-Ext-CT Allowed WAF and/or WWSF Identities	
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		CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150770 CP-150776 CP-150776 CP-150777 CP-150777 CP-150772 CP-150772 CP-150772 CP-150772 CP-150773	0490 0491 0494 0501 0502 0475 0476 0497 0498 0477 0479 0489 0500 0481 0482 0484	1 1 2 1 2 1 - 1 1 1 3 1 - -	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option Commands and codes for Np protocol Definition of ProSe-Metadata-Index-Mask Addition of AVPs and result-codes Addition of AVP used in match report procedure for eProSe-Ext-CT Allowed WAF and/or WWSF Identities Add the default access type to 3GPP specific AVP AVP code allocation for "UE Usage Type" Metadata in Match-Report	
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		CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150770 CP-150776 CP-150776 CP-150777 CP-150772 CP-150772 CP-150772 CP-150773 CP-150773 CP-150775 CP-150775 CP-150775 CP-150777 CP-150777 CP-150777	0490 0491 0494 0501 0502 0475 0476 0497 0498 0500 0481 0482 0484 0486 0488 0492 0496	1 1 2 1 2 1 - 1 1 3 1 - - 1 - 1 - 1 - 1	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option Commands and codes for Np protocol Definition of ProSe-Metadata-Index-Mask Addition of AVPs and result-codes Addition of AVP used in match report procedure for eProSe-Ext-CT Allowed WAF and/or WWSF Identities Add the default access type to 3GPP specific AVP AVP code allocation for "UE Usage Type" Metadata in Match-Report New Group AVP for ProSe direct discovery procedures Definition of AVP for AESE-CT Command codes and AVP range for TS 29.154 and TS 29.153	
		CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776 CP-150776 CP-150777 CP-150777 CP-150772 CP-150772 CP-150772 CP-150773 CP-150775 CP-150755 CP-150755 CP-150771 CP-150771 CP-150771 CP-150771 CP-150776	0490 0491 0494 0501 0502 0475 0476 0497 0498 0500 0481 0482 0484 0486 0488 0492 0496 0495	1 1 2 1 2 1 - 1 1 3 1 - - 1 1 - 1 - 1 - 1 - 1 - 1	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option Commands and codes for Np protocol Definition of ProSe-Metadata-Index-Mask Addition of AVPs and result-codes Addition of AVP used in match report procedure for eProSe-Ext-CT Allowed WAF and/or WWSF Identities Add the default access type to 3GPP specific AVP AVP code allocation for "UE Usage Type" Metadata in Match-Report New Group AVP for ProSe direct discovery procedures Definition of AVP for AESE-CT Command codes and AVP range for TS 29.154 and TS 29.153 AVP codes for Indoor Positioning support in SLg/Lgd	
016-03	CT#71	CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776 CP-150776 CP-150777 CP-150777 CP-150772 CP-150772 CP-150772 CP-150772 CP-150775 CP-150775 CP-150775 CP-150776 CP-150776 CP-150776 CP-150776 CP-150776 CP-150776 CP-150776 CP-150771 CP-150776 CP-150771 CP-150776 CP-150776 CP-150776	0490 0491 0494 0501 0502 0475 0476 0497 0498 0500 0481 0482 0484 0486 0488 0492 0496 0495	1 1 2 1 2 1 - 1 1 3 1 - - 1 1 - 1 - 1 - 1 - 1 - 1	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option Commands and codes for Np protocol Definition of ProSe-Metadata-Index-Mask Addition of AVPs and result-codes Addition of AVP used in match report procedure for eProSe-Ext-CT Allowed WAF and/or WWSF Identities Add the default access type to 3GPP specific AVP AVP code allocation for "UE Usage Type" Metadata in Match-Report New Group AVP for ProSe direct discovery procedures Definition of AVP for AESE-CT Command codes and AVP range for TS 29.154 and TS 29.153 AVP codes for Indoor Positioning support in SLg/Lgd Application ID for St	13.4.0
2016-03	CT#71	CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776 CP-150776 CP-150777 CP-150777 CP-150772 CP-150772 CP-150772 CP-150773 CP-150773 CP-150775 CP-150775 CP-150776 CP-150776 CP-150776 CP-150771 CP-150776	0490 0491 0494 0501 0475 0476 0497 0498 0477 0498 0500 0481 0482 0484 0486 0488 0492 0496 0495	1 1 2 1 2 1 1 - 1 1 - 1 - 1 - 1 - 1 - 1	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option Commands and codes for Np protocol Definition of ProSe-Metadata-Index-Mask Addition of AVPs and result-codes Addition of AVP used in match report procedure for eProSe-Ext-CT Allowed WAF and/or WWSF Identities Add the default access type to 3GPP specific AVP AVP code allocation for "UE Usage Type" Metadata in Match-Report New Group AVP for ProSe direct discovery procedures Definition of AVP for AESE-CT Command codes and AVP range for TS 29.154 and TS 29.153 AVP codes for Indoor Positioning support in SLg/Lgd Application ID for St Correction on TS numbers	13.4.0
016-03	CT#71	CP-150778 CP-150778 CP-150778 CP-150778 CP-150778 CP-150776 CP-150776 CP-150776 CP-150777 CP-150777 CP-150772 CP-150772 CP-150772 CP-150772 CP-150775 CP-150775 CP-150775 CP-150776 CP-150776 CP-150776 CP-150776 CP-150776 CP-150776 CP-150776 CP-150771 CP-150776 CP-150771 CP-150776 CP-150776 CP-150776	0490 0491 0494 0501 0475 0476 0497 0498 0477 0499 0500 0481 0482 0484 0486 0488 0492 0496 0495 0503	1 1 2 1 2 1 1 - 1 1 - 1 - 1 - 1 - 1 - 1	AVP codes for MONTE T6a/b interface Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE) Definition of AVP SCEF-ID Service result per Event configuration Emergency PDN connection over untrusted WLAN access EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving Mobile Terminating SMS handling for extended Idle mode DRX Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option Commands and codes for Np protocol Definition of ProSe-Metadata-Index-Mask Addition of AVPs and result-codes Addition of AVP used in match report procedure for eProSe-Ext-CT Allowed WAF and/or WWSF Identities Add the default access type to 3GPP specific AVP AVP code allocation for "UE Usage Type" Metadata in Match-Report New Group AVP for ProSe direct discovery procedures Definition of AVP for AESE-CT Command codes and AVP range for TS 29.154 and TS 29.153 AVP codes for Indoor Positioning support in SLg/Lgd Application ID for St	13.4.0

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		CP-160029			New AVP assignment for MONTE	
		CP-160029			Change of type of Monitoring-Duration AVP to represent an absolute time	
		CP-160035			Remove the default access AVP	
		CP-160035 CP-160030			Specific AVP codes for NBIFOM Alert procedure from MME/SGSN to SMS-GMSC for MT SMS to UE using	
		CP-160030	0511	-	leDRX	
		CP-160037	0512	-	ePDG retrieval of WLAN Location Information	-
		CP-160033			Definition of AVP Authorization of NIDD	
		CP-160033			New PDN-Type for Cellular IoT	_
		CP-160036			Monitoring update and Reporting of update result	
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2016-06	CT#72	CP-160231	0553	1	3GPP specific AVP for NBIFOM	14.1.0
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History

Document history						
V15.3.0	July 2018	Publication				
V15.4.0	October 2018	Publication				
V15.5.0	April 2019	Publication				
V15.6.0	July 2019	Publication				
V15.7.0	January 2020	Publication				