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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:

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

[1]	3GPP TS 29.228: "IP Multimedia (IM) Subsystem Cx and Dx interfaces; Signalling flows and
	message contents".

- [2] 3GPP TS 29.229: "Cx and Dx interfaces based on the Diameter protocol; Protocol details".
- [3] 3GPP TS 29.328: "IP Multimedia (IM) Subsystem Sh interface; Signalling flows and message contents".
- [4] 3GPP TS 29.329: "Sh Interface based on the Diameter protocol; Protocol details".
- [5] 3GPP TS 32.299: "Telecommunication management; Charging management; Diameter charging applications".
- [6] 3GPP TS 29.234, Release 11: "3GPP system to Wireless Local Area Network (WLAN) interworking; Stage 3".
- [7] 3GPP TS 29.109: "Generic Authentication Architecture (GAA); Zh and Zn Interfaces based on the Diameter protocol; Stage 3".
- [8] 3GPP TS 29.209, Release 6: "Policy control over Gq interface".
- [9] IETF RFC 3588: "Diameter Base Protocol".
- [10] IETF RFC 3589: "Diameter Command Codes for Third Generation Partnership Project (3GPP) Release 5".
- [11] IANA's Enterprise-Numbers: http://www.iana.org/assignments/enterprise-numbers
- [12] IANA's AAA parameters register: ftp://ftp.iana.org/assignments/aaa-parameters/

[13]	3GPP TS 29.061: "Interworking between the Public Land Mobile Network (PLMN) supporting packet based services and Packet Data Networks (PDN)".
[14]	3GPP TS 32.296: "Telecommunication management; Charging management; Online Charging System (OCS): Applications and interfaces".
[15]	3GPP TS 29.210, Release 6: "Charging rule provisioning over Gx interface".
[16]	3GPP TS 29.140, Release 6: "Multimedia Messaging Service (MMS); MM10 interface based on Diameter protocol; Stage 3".
[17]	3GPP TS 29.211, Release 6: "Rx Interface and Rx/Gx signalling flows".
[18]	3GPP TS 29.214: "Policy and Charging Control over Rx reference point".
[19]	3GPP TS 29.212: "Policy and Charging Control (PCC);Reference points".
[20]	3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces".
[21]	3GPP TS 29.272: "Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol".
[22]	3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point; Stage 3".
[23]	IETF RFC 5516: "Diameter Command Code Registration for Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)".
[24]	3GPP TS 29.172: "Location Services (LCS); Evolved Packet Core (EPC) LCS Protocol (ELP) between the Gateway Mobile Location Centre (GMLC) and the Mobile Management Entity (MME); SLg interface".
[25]	3GPP TS 29.173: "Location Services (LCS); Diameter-based SLh interface for Control Plane LCS".
[26]	3GPP TS 29.219: "Policy and Charging Control: Spending Limit Reporting over Sy reference point".
[27]	3GPP TS 29.368: "Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS)".
[28]	3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications".
[29]	3GPP TS 29.337: "Diameter-based T4 interface for communications with packet data networks and applications".
[30]	3GPP TS 29.338: "Diameter based protocols to support SMS capable MMEs".
[31]	3GPP TS 29.468: "Group Communication System Enablers for LTE (GCSE_LTE)".
[32]	3GPP TS 29.343: "Proximity-services (ProSe) function to ProSe application server aspects (PC2)".
[33]	3GPP TS 29.344: "Proximity-services (ProSe) Function to Home Subscriber Server (HSS) aspects".
[34]	3GPP TS 29.345: "Inter-Proximity-services (Prose) function signalling aspects; Stage 3".
[35]	3GPP TS 29.217: "Policy and Charging Control over Np reference point".
[36]	3GPP TS 29.128: "Diameter based T6a/T6b interface between the MME/SGSN and the SCEF".
[37]	3GPP TS 29.153: "Service exposure functionality between SCEF and RCAF reference point".
[38]	3GPP TS 29.154: "Service capability exposure functionality over Nt Reference point".
[39]	3GPP TS 29.283: "Diameter Data Management applications".

[40]	3GPP TS 29.388: "V2X Control Function to V2X Control Function to Home Subscriber Server (HSS) aspects (V4)".
[41]	3GPP TS 29.389: "Inter-V2X Control Function Signalling aspects (V6)".
[42]	3GPP TS 29.561: "Interworking between 5G Network and external Data Networks; Stage 3".

3 Definitions and abbreviations

3.1 Definitions

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

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

3.2 Abbreviations

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

AVP Attribute-Value-Pair CR Change Request

IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

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

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

4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

Application identifier	Application	3GPP TS
16777216	3GPP Cx/Px	29.228 [1] and 29.229 [2]
16777217	3GPP Sh/Ph	29.328 [3] and 29.329 [4]
16777218	3GPP Re	32.296 [14]
16777219	3GPP Wx	29.234 [6]
16777220	3GPP Zn	29.109 [7]
16777221	3GPP Zh	29.109 [7]
16777222	3GPP Gq	29.209 [8]
16777223	3GPP Gmb	29.061 [13]
16777224	3GPP Gx	29.210 [15]
16777225	3GPP Gx over Gy	29.210 [15]
16777226	3GPP MM10	29.140 [16]
16777229	3GPP Rx	29.211 [17]
16777230	3GPP Pr	29.234 [6]
16777236	3GPP Rx	29.214 [18]
16777238	3GPP Gx	29.212 [19]
16777250	3GPP STa	29.273 [20]
16777251	3GPP S6a	29.272 [21]
16777252	3GPP S13/S13'	29.272 [21]
16777255	3GPP SLg	29.172 [24]
16777264	3GPP SWm	29.273 [20]
16777265	3GPP SWx	29.273 [20]
16777266	3GPP Gxx	29.212 [19]
16777267	3GPP S9	29.215 [22]
16777268	3GPP Zpn	29.109 [7]
16777272	3GPP S6b	29.273 [20]
16777291	3GPP SLh	29.173 [25]
16777292	3GPP SGmb	29.061 [13]
16777302	3GPP Sy	29.219 [26]
16777303	3GPP Sd	29.212 [19]
16777308	3GPP S7a	29.272 [21]
16777309	3GPP Tsp	29.368 [27]
16777310	3GPP S6m	29.336 [28]
16777311	3GPP 74	29.337 [29]
16777312	3GPP 14 3GPP S6c	29.338 [30]
16777313	3GPP SGd	
		29.338 [30]
16777318	3GPP S15	29.212 [19]
16777319	3GPP S9a	29.215 [22]
16777320	3GPP S9a*	29.215 [22]
16777335	3GPP MB2-C	29.468 [31]
16777336	3GPP PC4a	29.344 [33]
16777337	3GPP PC2	29.343 [32]
16777340	3GPP PC6/PC7	29.345 [34]
16777342	3GPP Np	29.217 [35]
16777345	3GPP S6t	29.336 [28]
16777346	3GPP T6a/T6b	29.128 [36]
16777347	3GPP Ns	29.153[37]
16777348	3GPP Nt	29.154[38]
16777349	3GPP St	29.212 [19]
16777350	3GPP PC2	29.343 [32]
16777351	3GPP Diameter Data	29.283 [39]
	Management	
16777355	3GPP V4	29.388 [40]
16777356	3GPP V6	29.389 [41]
16777358	3GPP Nta	29.154 [38]

5 Command codes

The command codes are used for communicating the command associated with the Diameter message. The command code is carried in the Diameter header's Command-Code field. The command codes can be divided into standard

command codes allocated by IANA and experimental command codes for testing purposes only.

5.1 Command codes allocated for 3GPP

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

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

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

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

Table 5.1/2: Command codes allocated for 3GPP

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

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

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

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

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

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

Command code value	Command name	Abbreviation	Specified in 3GPP TS	
8388620	Provide-Location-Request/Answer	PLR/PLA		
8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]	
8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]	
8388635	Spending-Limit-Request/Answer	SLR/SLA	00 040 [00]	
8388636	Spending-Status-Notification- Request/Answer	SNR/SNA	29.219 [26]	
8388637	TDF-Session-Request/Answer	TSR/TSA	20 242 [40]	
8388731	TSSF-Notification-Request/Answer	TNR/TNA	29.212 [19]	
8388638	Update-VCSG-Location-Request/Answer	UVR/UVA	00 070 [04]	
8388642	Cancel-VCSG-Location-Request/Answer	CVR/CVA	29.272 [21]	
8388639	Device-Action-Request/Answer	DAR/DAA		
8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]	
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]	
8388718	Configuration-Information- Request/Answer	CIR/CIA		
8388719	Reporting-Information-Request/Answer	RIR/RIA	29.336 [28]	
8388726	NIDD-Information-Request/Answer	NIR/NIA		
8388643	Device-Trigger-Request/Answer	DTR/DTA		
8388644	Delivery-Report-Request/Answer	DRR/DRA	29.337 [29]	
8388645	MO-Forward-Short-Message Request/Answer	OFR/OFA		
8388646	MT-Forward-Short-Message Request/Answer	TFR/TFA		
8388647	Send-Routing-Info-for-SM- Request/Answer	SRR/SRA	29.338 [30]	
8388648	Alert-Service-Centre-Request/Answer	ALR/ALA		
8388649	Report-SM-Delivery-Status- Request/Answer	RDR/RDA		
8388656	Trigger-Establishment-Request/Answer	TER/TEA	29.215 [30]	
8388662	GCS-Action-Request/Answer	GAR/GAA		
8388663	GCS-Notification-Request/Answer	GNR/GNA	29.468 [31]	
8388664	ProSe-Subscriber-Information- Request/Answer	PIR/PIA		
8388665	Update-ProSe-Subscriber-Data- Request/Answer	UPR/UPA		
8388666	ProSe-Notify-Request/Answer	PNR/PNA	29.344 [33]	
8388713	ProSe-Initial-Location-Information- Request/Answer	PSR/PSA		
8388668	ProSe-Authorization-Request/Answer	PAR/PAA		
8388669	ProSe-Discovery-Request/Answer	PDR/PDA	29.345 [34]	
8388670	ProSe-Match-Request/Answer	PMR/PMA		

Request/Answer 8388672 ProSe-Proximity-Request/Answer PRR/PRA 8388673 ProSe-Location-Update-Request/Answer PLR/PLA 8388674 ProSe-Alert-Request/Answer ALR/ALA 8388675 ProSe-Cancellation-Request/Answer RPR/RPA 8388676 ProXimity-Action-Request/Answer PXR/PXA 8388727 ProXimity-Application-Request/Answer XAR/XAA 8388720 Non-Aggregated-RUCI-Report- Request/Answer NRR/NRA
8388674 ProSe-Alert-Request/Answer ALR/ALA 8388675 ProSe-Cancellation-Request/Answer RPR/RPA 8388676 ProXimity-Action-Request/Answer PXR/PXA 8388727 ProXimity-Application-Request/Answer XAR/XAA 8388720 Non-Aggregated-RUCI-Report- NRR/NRA
8388675 ProSe-Cancellation-Request/Answer RPR/RPA 8388676 ProXimity-Action-Request/Answer PXR/PXA 8388727 ProXimity-Application-Request/Answer XAR/XAA 8388720 Non-Aggregated-RUCI-Report- NRR/NRA
8388676 ProXimity-Action-Request/Answer PXR/PXA 8388727 ProXimity-Application-Request/Answer XAR/XAA 8388720 Non-Aggregated-RUCI-Report- NRR/NRA
8388727 ProXimity-Application-Request/Answer XAR/XAA 29.343 [3
8388721 Proximity-Application-Request/Answer XAR/XAA 8388720 Non-Aggregated-RUCI-Report- NRR/NRA
Trequest/Allswei
8388721 Aggregated-RUCI-Report- ARR/ARA 29.217 [3
8388722 Modify-Uecontext-Request/Answer MUR/MUA
8388724 Network-Status-Request/Answer NSR/NSA
8388725 Network-Status-Continuous-Report- NCR/NCA 29.153 [3
8388723 Background-Data-Transfer- BTR/BTA 29.154 [3
8388728 Data-Pull-Request/Answer DPR/DPA
8388729 Data-Update-Request/Answer DUR/DUA 29.283 [3
8388730 Notification-Data-Request/Answer NDR/NDA
8388732 Connection-Management- CMR/CMA Request/Answer
8388733 MO-Data-Request/Answer ODR/ODA 29.128 [3
8388734 MT-Data-Request/Answer TDR/TDA
8388735 Event-Configuration-Request/Answer ECR/ECA
8388736 Event-Reporting-Request/Answer ERR/ERA 29.154 [3

6 Vendor identifier

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

6.1 3GPP's vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP	Attribute Name	Data Type	Specified
Code		,	in the 3GPP TS
	3GPP-WLAN-APN-Id	OctetString	
	3GPP-WLAN-QoS-Filter-Rule	UTF8String	29.234 [6]
	3GPP-WLAN-QoS-Filter-Support	OctetString	
Attribu	The AVP codes from 1 to 255 are reserved for backwards comutes (See 3GPP TS 29.061 [13], 3GPP TS 29.561 [42] and 3GP		Specific
	The AVP codes from 256 to 299 are reserved for future use.	Towns and ad	1
	Authentication-Method Authentication-Information-SIM	Enumerated	
	Authorization -Information-SIM	OctetString OctetString	
	WLAN-User-Data	Grouped	
	Charging-Data	Grouped	
	WLAN-Access	Enumerated	
	WLAN- 3GPP-IP-Access	Enumerated	
	APN-Authorized	Grouped	
	APN-Id		
309	APN-Barring-Type	Enumerated	29.234 [6]
	WLAN-Direct-IP-Access	Enumerated	29.234 [6]
	Session-Request-Type	Enumerated	
	Routing-Policy	IPFilterRule	
	Max-Requested-Bandwidth	OctetString	
	Charging-Characteristics	Integer	
	Charging-Nodes	Grouped	
	Primary-OCS-Charging-Function-Name	DiameterIdentity	
	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
	3GPP-AAA-Server-Name	DiameterIdentity	
	Maximum-Number-Accesses	Unsigned32	
	1: The AVP codes from 320 to 399 are reserved for TS 29.234 2: The 3GPP-AAA-Server-Name definition is moved to TS 29.2	73 starting from Pel-12	
	GBA-UserSecSettings	OctetString	
	Transaction-Identifier	OctetString	
	NAF-Hostname	OctetString	
	GAA-Service-Identifier	OctetString Time	
	Key-ExpiryTime ME-Key-Material	OctetString	
406	UICC-Key-Material	OctetString	
407	GBA_U-Áwareness-Indicator	Enumerated	
408	BootstrapInfoCreationTime	Time	
	GUSS-Timestamp GBA-Type	Time Enumerated	29.109 [7]
411	UE-Id	OctetString	29.109[/]
	UE-Id-Type	Enumerated	
413	UICC-App-Label	OctetString	
	UICC-ME	Enumerated	
415	Requested-Key-Lifetime Private-Identity-Request	Time Enumerated	
	GBA-Push-Info	OctetString	
418	NAF-SA-Identifier	OctetString	
419	Security-Feature-Request	OctetString	
	Security-Feature-Response	OctetString	
	The AVP codes from 421 to 499 are reserved for TS 29.109	Farmanet - 4	1
	Abort-Cause	Enumerated	_
	Access-Network-Charging-Address	Address	
	Access-Network-Charging-Identifier Access-Network-Charging-Identifier-Value	Grouped OctetString	$\overline{}$
	AF-Application-Identifier	OctetString	
	AF-Charging-Identifier	OctetString	29.209
	Authorization-Token	OctetString	[8],
	Flow-Description	IPFilterRule	29.211
	Flow-Grouping	Grouped	[17],
	Flow-Number	Unsigned32	29.214
	Flows	Grouped	[18]
	Flow-Status	Enumerated	
	Flow-Usage	Enumerated	
	Specific-Action	Enumerated	
514	Max-Requested-Bandwidth	Unsigned32	

515	Max-Requested-Bandwidth-DL	Unsigned32	
516	Max-Requested-Bandwidth-UL	Unsigned32	
517	Media-Component-Description	Grouped	
518	Media-Component-Number	Unsigned32	
519	Media-Sub-Component AVP	Grouped	
	Media-Type	Enumerated	1
	RR-Bandwidth	Unsigned32	
	RS-Bandwidth	Unsigned32	
	SIP-Forking-Indication	Enumerated	
	Codec-Data	OctetString	
	Service-URN	OctetString	
	Acceptable-Service-Info	Grouped	-
	Service-Info-Status	Enumerated	1
	MPS-Identifier		-
		OctetString	
	AF-Signalling-Protocol	Enumerated	
	Sponsored-Connectivity-Data	Grouped	
	Sponsor-Identity Sponsor-Identity	OctetString	1
	Application-Service-Provider-Identity	OctetString	
	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 CCS-Identifier	OctetString	
	Sharing-Key-DL	Unsigned32	
540	Sharing-Key-UL	Unsigned32	
541	Retry-Interval	Unsigned32	
542	Sponsoring-Action	Enumerated	
543	Max-Supported-Bandwidth-DL	Unsigned32	
544	Max-Supported-Bandwidth-UL	Unsigned32	
	Min-Desired-Bandwidth-DL	Unsigned32	1
	Min-Desired-Bandwidth-UL	Unsigned32	
	MCPTT-Identifier	OctetString	-
	Service-Authorization-Info	Unsigned32	
	Media-Component-Status	Unsigned32	
	Priority-Sharing-Indicator	Enumerated	1
	AF-Requested-Data	Unsigned32	
	Content-Version	Unsigned64	
	Pre-emption-Control-Info	Unsigned32	
	Extended-Max-Requested-BW-DL	Unsigned32	
	Extended-Max-Requested-BW-UL	Unsigned32	
	Extended-Max-Supported-BW-DL	Unsigned32	1
			-
	Extended-Max-Supported-BW-UL	Unsigned32	1
	Extended-Min-Desired-BW-DL	Unsigned32	1
	Extended-Min-Desired-BW-UL	Unsigned32	-
	Extended-Min-Requested-BW-DL	Unsigned32	
	Extended-Min-Requested-BW-UL	Unsigned32	
	MCVideo-Identifier	OctetString	
	IMS-Content-Identifier	OctetString	
	IMS-Content-Type	Enumerated	
Note:	The AVP codes from 563 to 599 are reserved for TS 29.209, TS		
	Visited-Network-Identifier	OctetString	
601	Public-Identity	UTF8String	
	Server-Name	UTF8String]
	Server-Capabilities	Grouped	1
	Mandatory-Capability	Unsigned32	1
	Optional-Capability	Unsigned32	1
	User-Data	OctetString	
	SIP-Number-Auth-Items	Unsigned32	29.229 [2]
	SIP-Authentication-Scheme	UTF8String	
	SIP-Authenticate	OctetString	1
	SIP-Authorization	OctetString	1
	SIP-Authentication-Context	OctetString	1
	SIP-Auth-Data-Item	Grouped	1
	SIP-Item-Number	Unsigned32	1
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	Server-Assignment-Type	Enumerated	
	Deregistration-Reason	Grouped	
	Reason-Code	Enumerated	
	Reason-Info	UTF8String Grouped	
	Charging-Information Primary-Event-Charging-Function-Name	DiameterURI	
	Secondary-Event-Charging-Function-Name	DiameterURI	
	Primary-Charging-Collection-Function-Name	DiameterURI	
	Secondary-Charging-Collection-Function-Name	DiameterURI	
	User-Authorization-Type	Enumerated	
	User-Data-Already-Available	Enumerated	
	Confidentiality-Key	OctetString	
	Integrity-Key	OctetString	
627	User-Data-Request-Type	Enumerated	
628	Supported-Features	Grouped	
	Feature-List-ID	Unsigned32	
	Feature-List	Unsigned32	
	Supported-Applications	Grouped	
	Associated-Identities	Grouped	
	Originating-Request	Enumerated	
	Wildcarded-Public-Identity	UTF8String	
	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String Unsigned32	
	UAR-Flags Loose-Route-Indication	Enumerated	
	SCSCF-Restoration-Info	Grouped	
	Path	OctetString	
	Contact	OctetString	
	Subscription-Info	Grouped	
	Call-ID-SIP-Header	OctetString	
	From-SIP-Header	OctetString	
	To-SIP-Header	OctetString	
646	Record-Route	OctetString	
647	Associated-Registered-Identities	Grouped	
	Multiple-Registration-Indication	Enumerated	
	Restoration-Info	Grouped	
	Session-Priority	Enumerated	
	Identity-with-Emergency-Registration	Grouped	
	Priviledged-Sender-Indication	Enumerated	
	LIA-Flags	Unsigned32	
	Initial-CSeq-Sequence-Number	Unsigned32	
	SAR-Flags	Unsigned32	
	Allowed-WAF-WWSF-Identities WebRTC-Authentication-Function-Name	Grouped UTF8String	
	WebRTC-Web-Server-Function-Name	UTF8String	-
	RTR-Flags	Unsigned32	-
	The AVP codes from 660 to 699 are reserved for TS 29.229.	J Onsigned02	I .
	User-Identity	Grouped	
	MSISDN	OctetString	
	User-Data	OctetString	
	Data-Reference	Enumerated	
	Service-Indication	OctetString	
	Subs-Req-Type	Enumerated	
	Requested-Domain	Enumerated	
	Current-Location	Enumerated]
	Identity-Set	Enumerated	29.329 [4]
	Expiry-Time	Time	[4] ©.JZ
	Send-Data-Indication	Enumerated	
	DSAI-Tag	OctetString	
	One-Time-Notification	Enumerated	
	Requested-Nodes	Unsigned32	
	Serving-Node-Indication	Enumerated	
	Repository-Data-ID	Grouped	
	Sequence-Number	Unsigned32	
717	Pre-paging-Supported	Enumerated	

740	Level Time Zene Indication	F	1
	Local-Time-Zone-Indication	Enumerated	_
	UDR-Flags	Unsigned32	
	Call-Reference-Info	Grouped	
	Call-Reference-Number	OctetString	
	AS-Number	OctetString	
	The AVP codes from 723 to 799 are reserved for TS 29.329.		
	The AVP codes from 800 to 822 are reserved for TS 32.299.		
823	Event-Type	Grouped	
824	SIP-Method	UTF8String	
825	Event	UTF8String	
826	Content-Type	UTF8String	
827	Content-Length	Unsigned32	
828	Content-Disposition	UTF8String	
	Role-of-Node	Enumerated	
830	User-Session-Id	UTF8String	
	Calling-Party-Address	UTF8String	
	Called-Party-Address	UTF8String	
	Time-Stamps	Grouped	
	SIP-Request-Timestamp	Time	
	SIP-Response-Timestamp	Time	
	Application-Server	UTF8String	
	Application-provided-called-party-address	UTF8String	
	Inter-Operator-Identifier	Grouped	╡ !
	Originating-IOI	UTF8String	╡ !
	Terminating-IOI	UTF8String	
	IMS-Charging-Identifier	UTF8String	
	SDP-Session-Description	UTF8String	-
	SDP-Media-Component	Grouped	
	SDP-Media-Name	UTF8String	-
	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	
	Incoming-Trunk-Group-Id	UTF8String	32.299 [5]
	Outgoing-Trunk-Group-Id	UTF8String	
	Bearer-Service	OctetString	
	Service-Id	UTF8String	-
	Associated-URI	UTF8String	-
	Charged-Party	UTF8String	=
858	PoC-Controlling-Address	UTF8String	
	PoC-Group-Name	UTF8String	╡ !
	Cause	Grouped	╡ !
	Cause-Code	Integer32	┥
	Node-Functionality	Enumerated	+
	Service-Specific-Data	UTF8String	+
	Originator	Enumerated	
	PS-Furnish-Charging-Information	Grouped	
	PS-Free-Format-Data	OctetString	\dashv
	PS-Append-Free-Format-Data	Enumerated	\dashv
	Time-Quota-Threshold	Unsigned32	-
	Volume-Quota-Threshold	Unsigned32 Unsigned32	-
	Trigger-Type	Enumerated	-
	Quota-Holding-Time	Unsigned32	-
	Reporting-Reason	Enumerated	-
	Service-Information	Grouped	-
	PS-Information	Grouped	\dashv
	Reserved	Grouped	-
	IMS-Information	- Grouped	-
	MMS-Information	Grouped	-
	LCS-Information	Grouped	-
	PoC-Information		-
	MBMS-Information	Grouped Grouped	\dashv
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881 Quota-Consumption-Time Unsigned32	
882 Media-Initiator-Flag Enumerated	
883 PoC-Server-Role Enumerated	
884 PoC-Session-Type Enumerated	
885 Number-Of-Participants Unsigned32	
886 Originator-Address Grouped	
887 Participants-Involved UTF8String	
888 Expires Unsigned32	
889 Message-Body Grouped	
890 Reserved -	
891 Reserved -	
892 Reserved -	
893 Reserved -	
894 Reserved -	
895 Reserved -	
896 Reserved -	
897 Address-Data UTF8String	
898 Address-Domain Grouped	
899 Address-Type Enumerated	
	•
900 TMGI OctectString	
901 Required-MBMS-Bearer-Capabilities UTF8String	
902 MBMS-StartStop-Indication Enumerated	
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-Session-Identity OctetString	
909 RAI UTF8String	
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-Counting-Information Enumerated	
915 MBMS-User-Data-Mode-Indication Enumerated	
	29.061
917 MBMS-GGSN-IPv6-Address UTF8String	[13]
918 MBMS-BMSC-SSM-IP-Address UTF8String	
919 MBMS-BMSC-SSM-IPv6-Address UTF8String	
920 MBMS-Flow-Identifier 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-IPv6-Address OctetString	
926 MBMS-BMSC-SSM-UDP-Port OctetString	
927 MBMS-GW-UDP-Port OctetString	
928 MBMS-GW-UDP-Port-Indicator Enumerated	
V	
930 MBMS-Data-Transfer-Stop Unsigned64	
931 MBMS-Flags Unsigned32	
932 Restart-Counter Unsigned32	
933 Diagnostic-Info Unsigned32	
934 MBMS-Cell-List OctetString	
Note: The AVP codes from 935 to 999 are reserved for TS 29.061	
1000 Bearer-Usage Enumerated	
1001 Charging-Rule-Install Grouped	
1002 Charging-Rule-Remove Grouped	
1003 Charging-Rule-Definition Grouped	J
1100/UCharging-Rula-Rase-Name III-8String I 20 212	[10]
1004 Charging-Rule-Base-Name UTF8String 29.212	[19]
1005 Charging-Rule-Name OctetString	[19]
1005 Charging-Rule-NameOctetString1006 Event-TriggerEnumerated	[19]
1005 Charging-Rule-Name OctetString	[19]

1009 Online	Enumerated
1010 Precedence	Unsigned32
1011 Reporting-Level	Enumerated
1012 TFT-Filter	IPFilterRule
1013 TFT-Packet-Filter-Information	Grouped
1014 ToS-Traffic-Class	OctetString
1016 QoS-Information	Grouped
1018 Charging-Rule-Report	Grouped
1019 PCC-Rule-Status	Enumerated
1020 Bearer-Identifier	OctetString
1021 Bearer-Operation	Enumerated
1022 Access-Network-Charging-Identifier-Gx	Grouped
1023 Bearer-Control-Mode	Enumerated
1024 Network-Request-Support	Enumerated
1025 Guaranteed-Bitrate-DL	Unsigned32
1026 Guaranteed-Bitrate-UL	Unsigned32
1027 IP-CAN-Type	Enumerated
1028 QoS-Class-Identifier	Enumerated
1029 QoS-Negotiation	Enumerated
1030 QoS-Upgrade	Enumerated
1031 Rule-Failure-Code	Enumerated
1032 RAT-Type	Enumerated
1033 Event-Report-Indication	Grouped
1034 Allocation-Retention-Priority	Grouped
1035 CoA-IP-Address	Address
1036 Tunnel-Header-Filter	IPFilterRule
1037 Tunnel-Header-Length	Unsigned32
1037 Tunnel-neader-Length 1038 Tunnel-Information	Grouped
1039 CoA-Information	Grouped
040 APN-Aggregate-Max-Bitrate-DL	Unsigned32
O40 APN-Aggregate-Max-Bitrate-DL O41 APN-Aggregate-Max-Bitrate-UL	Unsigned32 Unsigned32
1041 AFN-Aggregate-Max-Bitrate-OL 1042 Revalidation-Time	Time
1043 Revalidation-Time	Time
Rule-Activation-Time Rule-DeActivation-Time	Time
	Enumerated
046 Priority-Level	Unsigned32
047 Pre-emption-Capability	Enumerated
1048 Pre-emption-Vulnerability	Enumerated
049 Default-EPS-Bearer-QoS	Grouped
050 AN-GW-Address	Address
051 QoS-Rule-Install	Grouped
052 QoS-Rule-Remove	Grouped
1053 QoS-Rule-Definition	Grouped
1054 QoS-Rule-Name	OctetString
1055 QoS-Rule-Report	Grouped
1056 Security-Parameter-Index	OctetString
1057 Flow-Label	OctetString
058 Flow-Information	Grouped
1059 Packet-Filter-Content	IPFilterRule
1059 Packet-Filter-Content 1060 Packet-Filter-Identifier	OctetString
059 Packet-Filter-Content060 Packet-Filter-Identifier061 Packet-Filter-Information	OctetString Grouped
 059 Packet-Filter-Content 060 Packet-Filter-Identifier 061 Packet-Filter-Information 062 Packet-Filter-Operation 	OctetString Grouped Enumerated
 059 Packet-Filter-Content 060 Packet-Filter-Identifier 061 Packet-Filter-Information 062 Packet-Filter-Operation 063 Resource-Allocation-Notification 	OctetString Grouped
 059 Packet-Filter-Content 060 Packet-Filter-Identifier 061 Packet-Filter-Information 062 Packet-Filter-Operation 063 Resource-Allocation-Notification 064 Session-Linking-Indicator 	OctetString Grouped Enumerated
DS9 Packet-Filter-Content D80 Packet-Filter-Identifier D81 Packet-Filter-Information D82 Packet-Filter-Operation D83 Resource-Allocation-Notification D84 Session-Linking-Indicator D85 PDN-Connection-ID	OctetString Grouped Enumerated Enumerated Enumerated OctetString
059 Packet-Filter-Content 060 Packet-Filter-Identifier 061 Packet-Filter-Information 062 Packet-Filter-Operation 063 Resource-Allocation-Notification 064 Session-Linking-Indicator 065 PDN-Connection-ID	OctetString Grouped Enumerated Enumerated Enumerated
1059 Packet-Filter-Content 1060 Packet-Filter-Identifier 1061 Packet-Filter-Information 1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification 1064 Session-Linking-Indicator 1065 PDN-Connection-ID 1066 Monitoring-Key	OctetString Grouped Enumerated Enumerated Enumerated OctetString
1059 Packet-Filter-Content 1060 Packet-Filter-Identifier 1061 Packet-Filter-Information 1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification 1064 Session-Linking-Indicator 1065 PDN-Connection-ID 1066 Monitoring-Key 1067 Usage-Monitoring-Information	OctetString Grouped Enumerated Enumerated Enumerated OctetString OctetString
1059 Packet-Filter-Content 1060 Packet-Filter-Identifier 1061 Packet-Filter-Information 1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification 1064 Session-Linking-Indicator 1065 PDN-Connection-ID 1066 Monitoring-Key 1067 Usage-Monitoring-Information 1068 Usage-Monitoring-Level 1069 Usage-Monitoring-Report	OctetString Grouped Enumerated Enumerated Enumerated OctetString OctetString Grouped
1059 Packet-Filter-Content 1060 Packet-Filter-Identifier 1061 Packet-Filter-Information 1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification 1064 Session-Linking-Indicator 1065 PDN-Connection-ID 1066 Monitoring-Key 1067 Usage-Monitoring-Information 1068 Usage-Monitoring-Level 1069 Usage-Monitoring-Report	OctetString Grouped Enumerated Enumerated Enumerated OctetString OctetString Grouped Enumerated
1059 Packet-Filter-Content 1060 Packet-Filter-Identifier 1061 Packet-Filter-Information 1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification 1064 Session-Linking-Indicator 1065 PDN-Connection-ID 1066 Monitoring-Key 1067 Usage-Monitoring-Information 1068 Usage-Monitoring-Level	OctetString Grouped Enumerated Enumerated Enumerated OctetString OctetString Grouped Enumerated Enumerated
1059 Packet-Filter-Content 1060 Packet-Filter-Identifier 1061 Packet-Filter-Information 1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification 1064 Session-Linking-Indicator 1065 PDN-Connection-ID 1066 Monitoring-Key 1067 Usage-Monitoring-Information 1068 Usage-Monitoring-Level 1069 Usage-Monitoring-Report 1070 Usage-Monitoring-Support 1071 CSG-Information-Reporting	OctetString Grouped Enumerated Enumerated Enumerated OctetString OctetString Grouped Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated
1059 Packet-Filter-Content 1060 Packet-Filter-Identifier 1061 Packet-Filter-Information 1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification 1064 Session-Linking-Indicator 1065 PDN-Connection-ID 1066 Monitoring-Key 1067 Usage-Monitoring-Information 1068 Usage-Monitoring-Level 1069 Usage-Monitoring-Report 1070 Usage-Monitoring-Support 1071 CSG-Information-Reporting 1072 Packet-Filter-Usage	OctetString Grouped Enumerated Enumerated Enumerated OctetString OctetString Grouped Enumerated
1059 Packet-Filter-Content 1060 Packet-Filter-Identifier 1061 Packet-Filter-Information 1062 Packet-Filter-Operation 1063 Resource-Allocation-Notification 1064 Session-Linking-Indicator 1065 PDN-Connection-ID 1066 Monitoring-Key 1067 Usage-Monitoring-Information 1068 Usage-Monitoring-Level 1069 Usage-Monitoring-Report 1070 Usage-Monitoring-Support	OctetString Grouped Enumerated Enumerated Enumerated OctetString OctetString Grouped Enumerated
Packet-Filter-Content Packet-Filter-Identifier Packet-Filter-Information Packet-Filter-Operation Packet-Filter-Operation Packet-Filter-Operation Packet-Filter-Operation Packet-Filter-Operation Packet-Filter-Operation Packet-Filter-Information Packet-Filter-Usage	OctetString Grouped Enumerated Enumerated Enumerated OctetString OctetString Grouped Enumerated

1076 Routing-Rule-Definition	Grouped	
1077 Routing-Rule-Identifier	OctetString	
1078 Routing-Filter	Grouped	
1079 Routing-IP-Address	Address	
1080 Flow-Direction	Enumerated	
1081 Routing-Rule-Install	Grouped	
1082 Credit-Management-Status	Unsigned32	
1085 Redirect-Information	Grouped	
1086 Redirect- Support	Enumerated	
1087 TDF-Information	Grouped	
1088 TDF-Application-Identifier	OctetString	
1089 TDF-Destination-Host	DiameterIdentity	
1090 TDF-Destination-Realm	DiameterIdentity	
1091 TDF-IP-address	Address	
1092 ADC-Rule-Install	Grouped	
1093 ADC-Rule-Remove	Grouped	
1094 ADC-Rule-Definition	Grouped	
1095 ADC-Rule-Base-Name	UTF8String	
1096 ADC-Rule-Name	OctetString	
1097 ADC-Rule-Report	Grouped	
1098 Application-Detection-Information	Grouped	
1099 PS-to-CS-Session-Continuity	Enumerated	
Note: The AVP codes from 1083 to 1084 are reserved for TS 29.212		
1100 Served-User-Identity	Groupe	
1101 VASP-ID	UTF8Str	
1102 VAS-ID	UTF8String	
1103 Trigger-Event	Enumerated	
1104 Sender-Address	UTF8String	
1105 Initial-Recipient-Address	Grouped	
1106 Result-Recipient-Address	Grouped	
1107 Sequence-Number	Unsigned32	
1108 Recipient-Address	UTF8String	
1109 Routeing-Address	UTF8String	29.140 [16]
1110 Originating-Interface	Enumerated	23.140 [10]
1111 Delivery-Report	Enumerated	
1112 Read-Reply	Enumerated	
1113 Sender-Visibility	Enumerated	
1114 Service-Key	UTF8String	
1115 Billing-Information	UTF8String	
1116 Status	Grouped	
1117 Status-Code	UTF8String	
1118 Status-Text	UTF8String	
Note: The AVP codes from 1119 to 1199 are reserved for TS 29.140	Officoning	
1200 Domain-Name	UTF8String	
1201 Recipient-Address	Grouped	
1202 Submission-Time	Time	
1203 MM-Content-Type	Grouped	
1204 Type-Number	Enumerated	
1205 Additional-Type-Information	UTF8String	
1206 Content-Size	Unsigned32	
1207 Additional-Content-Information	Grouped	
1208 Addressee-Type	Enumerated	
1208 Addressee-Type 1209 Priority	Enumerated	
1210 Message-ID		
	UTF8String	32.299 [5]
1211 Message-Type	Enumerated	
1212 Message-Size	Unsigned32	
1213 Message-Class	Grouped	
1214 Class-Identifier	Enumerated	
1215 Token-Text	UTF8String	
1216 Delivery-Report-Requested	Enumerated	
1217 Adaptations	Enumerated	
1218 Applic-ID	UTF8String	
1219 Aux-Applic-Info	UTF8String	
1220 Content-Class	Enumerated	
1221 DRM-Content	Enumerated	l e e e e e e e e e e e e e e e e e e e

1222	Read-Reply-Report-Requested	Enumerated	
1223	Reply-Applic-ID	UTF8String	
1224	File-Repair-Supported	Enumerated	
1225	MBMS-User-Service-Type	Enumerated	
1226	Unit-Quota-Threshold	Unsigned32	
	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	
	LCS-Client-Name	Grouped	
	LCS-Data-Coding-Scheme	UTF8String	
	LCS-Format-Indicator	Enumerated	
	LCS-Name-String	UTF8String	
	LCS-Requestor-Id	Grouped	
	LCS-Requestor-Id-String	UTF8String	
	LCS-Client-Type	Enumerated	
	Location-Estimate	OctetString	
1243	Location-Estimate-Type	Enumerated	
1244	Location-Type	Grouped	
	Positioning-Data	UTF8String	
	Reserved	-	
	PDP-Context-Type	Enumerated	
	MMBox-Storage-Requested	Enumerated	
1249	Service-Specific-Info	Grouped	
	Called-Asserted-Identity	UTF8String	
	Requested-Party-Address	UTF8String	
	PoC-User-Role	Grouped	
1253	PoC-User-Role-IDs	UTF8String	
1254	PoC-User-Role-info-Units	Enumerated	
1255	Talk-Burst-Exchange	Grouped	
1256	Service-Generic-Information	Grouped	
1257	Service-Specific-Type	Unsigned32	
1258	Event-Charging-TimeStamp	Time	
1259	Participant-Access-Priority	Enumerated	
	Participant-Group	Grouped	
1261	PoC-Change-Conditions	Enumerated	
	PoC-Change-Time	Time	
	Access-Network-Information	OctetString	
	Trigger	Grouped	
	Base-Time-Interval	Unsigned32	
	Envelope	Grouped	
	Envelope-End-Time	Time	
	Envelope-Reporting	Enumerated	
	Envelope-Start-Time	Time	
	Time-Quota-Mechanism	Grouped	
	Time-Quota-Type	Enumerated	
	Early-Media-Description	Grouped	
	SDP-TimeStamps	Grouped	
	SDP-Offer-Timestamp	Time	
	SDP-Answer-Timestamp	Time	
	AF-Correlation-Information	Grouped	
	PoC-Session-Initiation-type	Enumerated	
	Offline-Charging	Grouped	
	User-Participating-Type	Enumerated	
	Alternate-Charged-Party-Address	UTF8String	
	IMS-Communication-Service-Identifier		
1201		UTF8String	
1202	Number Of Passived Talk Purets	Uncianadoo	
	Number-Of-Received-Talk-Bursts	Unsigned32	
1283	Number-Of-Talk-Bursts	Unsigned32	
1283 1284	Number-Of-Talk-Bursts Received-Talk-Burst-Time	Unsigned32 Unsigned32	
1283 1284 1285	Number-Of-Talk-Bursts	Unsigned32	

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1287 Talk-Burst-Volume	Unsigned32	
1288 Media-Initiator-Party	UTF8String	
Note: The AVP codes from 1289 to 1299 are reserved for TS 32.299	Francisco de d	
1300 PC5-Radio-Technology	Enumerated Time	
1301 RAN-End-Time		
1302 RAN-Secondary-RAT-Usage-Report	Grouped	
1303 RAN-Start-Time	Time	
1304 Secondary-RAT-Type	OctetString	
1305 Civic-Address-Information	UTF8String	
1306 WLAN-Operator-Id	Grouped	
1307 WLAN-Operator-Name	UTF8String	
1308 WLAN-PLMN-Id	UTF8String	
1309 API-Content	UTF8String	
1310 API-Direction	Enumerated	
1311 API-Identifier	OctetString	32.299 [5]
1312 API-Invocation-Timestamp	Time	02.200 [0]
1313 API-Result-Code	Unsigned32	
1314 API-Size	Unsigned64	
1315 API-Network-Service-Node	Enumerated	
1316 Exposure-Function-API-Information	Grouped	
1317 SCEF-Address	Address	
1318 TLTRI	Unsigned32	
1319 TTRI	Unsigned32	
1320 3GPP-OC-Specific-Reduction	Grouped	
1321 3GPP-OC-Rating-Group	Unsigned32	
1322 3GPP-OC-Request-Type	Enumerated	
1323 Reserved		
Note: The AVP codes from 1324 to 1399 are reserved for TS 32.229.	•	
1400 Subscription-Data	Grouped	
1401 Terminal-Information	Grouped	
1402 IMEI	UTF8String	
1403 Software-Version	UTF8String	
1404 QoS-Subscribed	UTF8String	
1405 ULR-Flags	Unsigned32	
1406 ULA-Flags	Unsigned32	
1407 Visited PLMN Id	OctetString	
1408 Requested-EUTRAN-Authentication-Info	Grouped	
1409 Requested-UTRAN- GERAN-Authentication-Info	Grouped	
1410 Number-Of-Requested-Vectors	Unsigned32	
1411 Re-Synchronization-Info	OctetString	
1412 Immediate-Response-Preferred	Unsigned32	
1413 Authentication-Info	Grouped	
1414 E-UTRAN-Vector	Grouped	
1415 UTRAN-Vector	Grouped	
1416 GERAN-Vector	Grouped	
1416 GERAN-Vector 1417 Network-Access-Mode		
1417 Network-Access-Mode	Enumerated Enumerated	20 272 [24]
		29.272 [21]
1419 Item-Number	Unsigned32	
1420 Cancellation-Type	Enumerated	
1421 DSR-Flags	Unsigned32	
1422 DSA-Flags	Unsigned32	
1423 Context-Identifier	Unsigned32	
1424 Subscriber-Status	Enumerated	
1425 Operator-Determined-Barring	Unsigned32	
1426 Access-Restriction-Data	Unsigned32	
1427 APN-OI-Replacement	UTF8String	
1428 All-APN-Configurations-Included-Indicator	Enumerated	
1429 APN-Configuration-Profile	Grouped	
1430 APN-Configuration	Grouped	
1431 EPS-Subscribed-QoS-Profile	Grouped	
1432 VPLMN-Dynamic-Address-Allowed	Enumerated	
1433 STN-SR	OctetString	
1434 Alert-Reason	Enumerated	
1435 AMBR	Grouped	
1436 CSG-Subscription-Data	Grouped	
1430 (C3G-3ubscription-Data	Oloubed	

1437 CSG-Id	Unsigned32	
1438 PDN-GW-Allocation-Type	Enumerated	
1439 Expiration-Date	Time	
1440 RAT-Frequency-Selection-Priority-ID	Unsigned32	
1441 IDA-Flags	Unsigned32	
1442 PUA-Flags	Unsigned32	
1443 NOR-Flags	Unsigned32	
1444 User-Id	UTF8String	
1445 Equipment-Status	Enumerated	
1446 Regional-Subscription-Zone-Code	OctetString	
1447 RAND	OctetString	
1448 XRES	OctetString	
1449 AUTN		
	OctetString	
1450 KASME	OctetString	
1451 Reserved	-	
1452 Trace-Collection-Entity	Address	
1453 Kc	OctetString	
1454 SRES	OctetString	
1455 Reserved	-	
1456 PDN-Type	Enumerated	
1457 Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated	
1458 Trace-Data	Grouped	
1459 Trace-Reference	OctetString	
1460 Reserved	-	
1461 Reserved	-	
1462 Trace-Depth	Enumerated	
1463 Trace-NE-Type-List	OctetString	
1464 Trace-Interface-List	OctetString	
1465 Trace-Event-List	OctetString	
1466 OMC-Id	OctetString	
1467 GPRS-Subscription-Data	Grouped	
1468 Complete-Data-List-Included-Indicator	Enumerated	
1469 PDP-Context	Grouped	
1470 PDP-Type	OctetString	
1471 3GPP2-MEID	OctetString	
1472 Specific-APN-Info	Grouped	
1473 LCS-Info	Grouped	
1474 GMLC-Number	OctetString	
1475 LCS-PrivacyException	Grouped	
1476 SS-Code	OctetString	
1477 SS-Status	OctetString	
1478 Notification-To-UE-User	Enumerated	
1479 External-Client	Grouped	
1480 Client-Identity	OctetString	
1481 GMLC-Restriction		
1481 GMLC-Restriction 1482 PLMN-Client	Enumerated	
	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	
1500 Non-3GPP-User-Data	Grouped	29.273 [20]
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1501 Non-3GP-IP-Access			1	
1503 AN-Trusted				
1506 Trace-Info	1502 Non-3GPP-IP-Access-APN	Enumerated		
1505 MIP-FA-RK	1503 AN-Trusted	Enumerated		
1505 MIP-FA-RK	1504 ANID	UTF8String		
1506 MP-FA-RK OctelString 1507 MP-FA-RK-SP Unsigned32 1508 PPR-Flags Unsigned32 1509 MVAN-Alcentifier Grouped 1510 TWAN-Access-Info Grouped 1510 TWAN-Access-Info Grouped 1511 Access-Authorization-Flags Unsigned32 1512 TWAN-Default-APN-Context-Id Unsigned32 1513 Reserved - 1514 Reserved - 1514 Reserved - 1515 Reserved - 1515 Reserved - 1516 Reserved - 1517 Short-Network-Name OctetString 1518 AAA-Fallure-Indication Unsigned32 1518 Reserved - 1519 Transport-Access-Type Enumerated 1519 Transport-Access-Type Enumerated 1519 Transport-Access-Type Unsigned32 1520 DER-Flags Unsigned32 1521 DER-Flags Unsigned32 1522 DER-Flags Unsigned32 1522 DER-Flags Unsigned32 1523 DER-Flags Unsigned32 1523 DER-Flags Unsigned32 1523 DER-Flags Unsigned32 1523 DER-Flags Unsigned32 1525 HESSID UTFSString 1526 Rooses-Network-Info Grouped 1527 TWAN-Connectivity-Parameters Grouped 1528 Democrativity-Parameters Grouped 1528 Democrativity-Parameters Grouped 1529 Democrativity-Parameters Grouped 1529 Democrativity-Parameters Unsigned32 1533 TWAN-SC4-Paddress Unsigned32 1538 TWAN-SC4-Paddress Unsigned32 1538 TWAN-SC4-Paddress Unsigned32 1538 TWAN-SC4-Paddress Unsigned32 1538 TWAN-SC4-Paddress Unsigned32 1539 ARR-Flags Unsigned32 1539				
1507 MP-FA-RK-SP				
1509 W.A.N. Access-Info		J		
1509 WLAN-Identifier				
1510 INVAN-Access-Info				
1510 INVAN-Access-Authorization-Flags	1509 WLAN-Identifier	Grouped		
1511 Access-Authorization-Flags	1510 TWAN-Access-Info			
1512 TWAN-Default-APN-Context-Id				
1513 Reserved				
1514 Reserved -		Unsigned32		
1515 Reserved		-		
1516 Full-Network-Name	1514 Reserved	-		
1516 Full-Network-Name	1515 Reserved	-		
1517 Short-Network-Name		OctetString		
1518 AAA-Failure-Indication				
1519 Transport-Access-Type				
1520 DER-Flags				
	1519 Transport-Access-Type	Enumerated		
		Unsigned32		
1522 DER-S6b-Flags				
1523 DER-S6b-Flags				
1525 SSID				
1525 HESSID				
1526 Access-Network-Info Grouped 1527 TWAN-Connection-Mode Unsigned32 1528 TWAN-Connectivity-Parameters Grouped 1529 Connectivity-Plags Unsigned32 1530 TWAN-PCO OctetString 1531 TWAG-CP-Address Address 1532 TWAG-CP-Address UTF8String 1533 TWAN-S2a-Failure-Cause Unsigned32 1534 SM-Back-Off-Timer Unsigned32 1535 WLCP-Key OctetString 1536 Origination-Time-Stamp Unsigned64 1537 Maximum-Wait-Time Unsigned32 1538 Emergency-Services Unsigned32 1538 Emergency-Services Unsigned32 1539 AR-Flags Unsigned32 1540 IMEI-Check-In-VPLMN-Result Unsigned32 1541 ERP-Authorization Unsigned32 1541 ERP-Authorization Unsigned32 1541 ERP-Authorization Unsigned32 1541 ERP-Authorization Unsigned32 1542 ERP-Authorization Unsigned32 1543 ERP-Authorization Unsigned32 1540 IMEI-Check-In-VPLMN-Result Unsigned32 1541 ERP-Authorization Unsigned32 1542 ERP-Authorization Unsigned32 1543 ERP-Authorization Unsigned32 1544 ERP-Authorization Unsigned32 1555 Unsigned32 Unsigned32 1560 IMEI-Check-In-VPLMN-Result Unsigned32 1570 Unsigned32 Unsigned32 1580 ERP-AAA-Server-Name was originally defined in 3GPP TS 29.234 and is now defined in 3GPP TS 29.273 from Rel-12 1600 IMEI-Cocation-Information Grouped 1601 GSDs. Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Google Cocation-Information OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Geographical-Information OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString 1600 Geographical-Information OctetString 1610 Urrent-Location-Retrieved Enumerated 1611 ERP-Permission Enumerated 1612 Lett-Permission Enume				
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1527 TWAN-Connection-Mode				
1528 TWAN-Connectivity-Parameters				
1529 Connectivity-Flags				
1530 TWAN-PCO				
1531 TWAG-CP-Address UTF8String UTF8St	1529 Connectivity-Flags			
1531 TWAG-CP-Address UTF8String UTF8St	1530 TWAN-PCO	OctetSt	ring	
1532 TWAG-UP-Address	1531 TWAG-CP-Address			
1533 TWAN-S2a-Failure-Cause				
1534 SM-Back-Off-Timer				
1535 WLCP-Key				
318 3GPP-AAA-Server-Name DiameterIdentity 1538 Origination-Time-Stamp Unsigned64 1537 Maximum-Wait-Time Unsigned32 1538 Emergency-Services Unsigned32 1539 AAR-Flags Unsigned32 1540 IMEI-Check-In-VPLMN-Result Unsigned32 1541 ERP-Authorization Unsigned32 Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.234 and is now defined in 3GPP TS 29.273 from Rel-12. 1600 MME-Location-Information Grouped 1601 SGSN-Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Location-Area-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString 1610 Age-Of-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 SIPTO-Permission Enumerated 1614 Error-Diagnostic Enumerated 1615 UE-SRVCC-Capability Unsigned32 1617 VPLMN-LIPA-Allowed Enumerated 1618 LIPA-Permission Enumerated 1619 Tournerated Enumerated 1610 Tournerated Enumerated 1611 Age-Of-Permission Enumerated 1612 Tournerated Enumerated 1613 LIPA-Permission Enumerated 1614 Enumerated Enumerated 1615 LIPA-Permission Enumerated 1616 Enumerated Enumerated 1617 Polymy-LiPA-Allowed Enumerated 1618 LIPA-Permission Enumerated 1619 Enumerated Enumerated 1610 Enumerated Enumerated Enumerated 1611 Enumerated Enumerated Enumerated 1612 Enumerated Enumerated Enumerated 1613 Enumerated Enumerated Enumerated Enumerated 1614 Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated E				
318 3GPP-AAA-Server-Name DiameterIdentity 1538 Origination-Time-Stamp Unsigned64 1537 Maximum-Wait-Time Unsigned32 1538 Emergency-Services Unsigned32 1539 AAR-Flags Unsigned32 1540 IMEI-Check-In-VPLMN-Result Unsigned32 1541 ERP-Authorization Unsigned32 Note 1: The AVP codes from 1542 to 1599 are reserved for TS 29.273 Note 2: The AVP 3GPP-AAA-Server-Name was originally defined in 3GPP TS 29.234 and is now defined in 3GPP TS 29.273 from Rel-12. 1600 MME-Location-Information Grouped 1601 SGSN-Location-Information Grouped 1602 E-UTRAN-Cell-Global-Identity OctetString 1603 Tracking-Area-Identity OctetString 1604 Cell-Global-Identity OctetString 1605 Routing-Area-Identity OctetString 1606 Location-Area-Identity OctetString 1607 Service-Area-Identity OctetString 1608 Geographical-Information OctetString 1609 Geodetic-Information OctetString 1610 Age-Of-Location-Retrieved Enumerated 1611 Age-Of-Location-Information Unsigned32 1612 Active-APN Grouped 1613 SIPTO-Permission Enumerated 1614 Error-Diagnostic Enumerated 1615 UE-SRVCC-Capability Unsigned32 1617 VPLMN-LIPA-Allowed Enumerated 1618 LIPA-Permission Enumerated 1619 Tournerated Enumerated 1610 Tournerated Enumerated 1611 Age-Of-Permission Enumerated 1612 Tournerated Enumerated 1613 LIPA-Permission Enumerated 1614 Enumerated Enumerated 1615 LIPA-Permission Enumerated 1616 Enumerated Enumerated 1617 Polymy-LiPA-Allowed Enumerated 1618 LIPA-Permission Enumerated 1619 Enumerated Enumerated 1610 Enumerated Enumerated Enumerated 1611 Enumerated Enumerated Enumerated 1612 Enumerated Enumerated Enumerated 1613 Enumerated Enumerated Enumerated Enumerated 1614 Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated E	1535 WLCP-Key	OctetSt	ring	
1536 Origination-Time-Stamp				
1537 Maximum-Wait-Time			•	
1538 Emergency-Services				
1539 AAR-Flags				
1540 IMEI-Check-In-VPLMN-Result Unsigned32 IS41 ERP-Authorization Unsigned32 Unsig				
1540 IMEI-Check-In-VPLMN-Result Unsigned32 IS41 ERP-Authorization Unsigned32 Unsig	1539 AAR-Flags	Unsigne	ed32	
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1612 Active-APN Grouped 1613 SIPTO-Permission Enumerated 1614 Error-Diagnostic Enumerated 1615 UE-SRVCC-Capability Enumerated 1616 MPS-Priority Unsigned32 1617 VPLMN-LIPA-Allowed Enumerated 1618 LIPA-Permission Enumerated	1610 Current-Location-Retrieved	Enumer Enumer	ated	[21]
1612 Active-APN Grouped 1613 SIPTO-Permission Enumerated 1614 Error-Diagnostic Enumerated 1615 UE-SRVCC-Capability Enumerated 1616 MPS-Priority Unsigned32 1617 VPLMN-LIPA-Allowed Enumerated 1618 LIPA-Permission Enumerated	1611 Age-Of-Location-Information	Unsigne	ed32	
1613SIPTO-PermissionEnumerated1614Error-DiagnosticEnumerated1615UE-SRVCC-CapabilityEnumerated1616MPS-PriorityUnsigned321617VPLMN-LIPA-AllowedEnumerated1618LIPA-PermissionEnumerated				
1614Error-DiagnosticEnumerated1615UE-SRVCC-CapabilityEnumerated1616MPS-PriorityUnsigned321617VPLMN-LIPA-AllowedEnumerated1618LIPA-PermissionEnumerated				
1615 UE-SRVCC-CapabilityEnumerated1616 MPS-PriorityUnsigned321617 VPLMN-LIPA-AllowedEnumerated1618 LIPA-PermissionEnumerated				
1616 MPS-PriorityUnsigned321617 VPLMN-LIPA-AllowedEnumerated1618 LIPA-PermissionEnumerated				
1617 VPLMN-LIPA-AllowedEnumerated1618 LIPA-PermissionEnumerated				
1617 VPLMN-LIPA-AllowedEnumerated1618 LIPA-PermissionEnumerated	1616 MPS-Priority	Unsiane	ed32	
1618 LIPA-Permission Enumerated				
Unsigned32				
	1619 Subscribed-Periodic-RAU-TAU-Timer	<u>Unsigne</u>	ea32	

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1620 Ext-PDP-Type	OctetString
1621 Ext-PDP-Address	Address
1622 MDT-Configuration	Grouped
1623 Job-Type	Enumerated
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	- Octetoring
1647 Reserved	-
1648 SMS-Register-Request	- Enumerated
1649 Local-Time-Zone	
	Grouped Enumerated
1650 Daylight-Saving-Time	
1651 GMLC-Info	Grouped
1652 GMLC-Name	DiameterIdentity
1653 GMLC-Realm	DiameterIdentity
1654 Subscription-Data-Flags	Unsigned32
1655 Measurement-Period-LTE	Enumerated
1656 Measurement-Period-UMTS	Enumerated
1657 Collection-Period-RRM-LTE	Enumerated
1658 Collection-Period-RRM-UMTS	Enumerated
1659 Positioning-Method	OctetString
1660 Measurement-Quantity	OctetString
1661 Event-Threshold-Event-1F	Integer32
1662 Event-Threshold-Event-11	Integer32
1663 Restoration-Priority	Unsigned32
1664 SGs-MME-Identity	UTF8String
1665 SIPTO-Local-Network-Permission	Unsigned32
1666 Coupled-Node-Diameter-ID	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-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
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	Unsigned32
1683 Additional-Context-Identifier 1684 SCEF-Realm	Unsigned32 DiameterIdentity

	Subscription-Data-Deletion	Grouped	
	Preferred-Data-Mode	Unsigned32	
	Emergency-Info	Grouped	
	V2X-Subscription-Data	Grouped	
	V2X-Permission	Unsigned32	
	PDN-Connection-Continuity	Unsigned32	
	eDRX-Cycle-Length	Grouped	
1692	eDRX-Cycle-Length-Value	OctetString	
1693	UE-PC5-AMBR	Unsigned32	
1694	MBSFN-Area	Grouped	
1695	MBSFN-Area-ID	Unsigned32	
1696	Carrier-Frequency	Unsigned32	
1697	RDS-Indicator	Enumerated	
1698	Service-Gap-Time	Unsigned32	
1699	Aerial-UE-Subscription-Information	Unsigned32	
	Broadcast-Location-Assistance-Data-Types	Unsigned64	
	Paging-Time-Window	Grouped	
1702	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.	Litumerated	<u> </u>
	SMS-Information	Grouped	
	Data-Coding-Scheme	Integer32	
	Destination-Interface	Grouped	
	Interface-Id	UTF8String	
	Interface-Id	UTF8String	
	Interface-Port Interface-Text	UTF8String	
		Ŭ	
	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	OctetString	
	SM-User-Data-Header	OctetString	
	SMS-Node	Enumerated	
	SMSC-Address	Address	
	Client-Address	Address	
2019	Number-of-Messages-Sent	Unsigned32	
	Low-Balance-Indication	Enumerated	22 200 [5]
	Remaining-Balance	Groupea	32.299 [5]
	Refund-Information	OctetString	
	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	
1/0.3/1		Enumerated	
	Subscriber-Role	LIIUIIIGIAIGU	
2033	Subscriber-Role Number-Of-Diversions	Incianad22	
2033 2034	Number-Of-Diversions	Unsigned32	
2033 2034 2035	Number-Of-Diversions Associated-Party-Address	UTF8String	
2033 2034 2035 2036	Number-Of-Diversions Associated-Party-Address SDP-Type	UTF8String Enumerated	
2033 2034 2035 2036 2037	Number-Of-Diversions Associated-Party-Address SDP-Type Change-Condition	UTF8String Enumerated Integer32	
2033 2034 2035 2036 2037 2038	Number-Of-Diversions Associated-Party-Address SDP-Type Change-Condition Change-Time	UTF8String Enumerated Integer32 Time	
2033 2034 2035 2036 2037 2038 2039	Number-Of-Diversions Associated-Party-Address SDP-Type Change-Condition Change-Time Diagnostics	UTF8String Enumerated Integer32 Time Integer32	
2033 2034 2035 2036 2037 2038 2039 2040	Number-Of-Diversions Associated-Party-Address SDP-Type Change-Condition Change-Time	UTF8String Enumerated Integer32 Time	

2042 Stop-Time	Time	
2043 Time-First-Usage	Time	
2044 Time-Last-Usage	Time	
2045 Time-Usage	Unsigned32	
2046 Traffic-Data-Volumes	Grouped	
2047 Serving-Node-Type	Enumerated	
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.	Enumerateu	
2100 reserved		
2100 reserved 2101 Application-Server-ID	- UTF8String	
2102 Application-Service-Type	Enumerated	
	Unsigned32	
2103 Application-Session-ID		
2104 Delivery-Status	UTF8String	
2104 Delivery-Status 2105 reserved		
2104 Delivery-Status 2105 reserved 2106 reserved		
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved		
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved		
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved	UTF8String	32.299 [5]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2110 IM-Information	UTF8String Grouped	32.299 [5]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded	UTF8String Grouped Unsigned32	32.299 [5]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 reserved 2109 reserved 2110 IM-Information 2111 Number-Of-Messages-Successfully-Exploded 2112 Number-Of-Messages-Successfully-Sent	UTF8String	32.299 [5]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32	32.299 [5]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32	32.299 [5]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped Grouped	32.299 [5]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned34 Unsigned35 Unsigned35 Unsigned36 Unsigned36 UTF8String	32.299 [5]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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	UTF8String Grouped Unsigned32	32.299 [5]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned34 Unsigned35 Unsigned35 Unsigned36 Unsigned36 UTF8String	32.299 [5]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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.	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated	32.299 [5]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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	UTF8String Grouped Unsigned32	32.299 [5]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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.	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Enumerated	32.299 [5]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped	32.299 [5]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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-Inforcement-Info 2202 Subsession-Id	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped	
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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 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	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated	29.215
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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 2202 Subsession-Operation 2204 Multiple-BBERF-Action	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated	
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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 2205 UE-Local-IPv6-Prefix	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Enumerated Enumerated OctetString	29.215
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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 2202 Subsession-Id 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Grouped Unsigned32 Enumerated Enumerated Enumerated	29.215
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 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-Id 2203 Subsession-Operation 2204 Multiple-BBERF-Action 2205 UE-Local-IPv6-Prefix 2206 DRA-Deployment 2207 PCRF-Address	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned4 UTF8String UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated DiameterIdentity	29.215
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 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 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	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Grouped Unsigned32 Enumerated Enumerated Enumerated	29.215
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 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-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.	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned32 Unsigned4 UTF8String UTF8String UTF8String Enumerated Grouped Grouped Unsigned32 Enumerated Unsigned32 Enumerated Enumerated Enumerated Enumerated DiameterIdentity	29.215
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 2108 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	UTF8String Grouped Unsigned32 Unsigned32 Unsigned32 Unsigned32 Grouped UTF8String UTF8String Enumerated Grouped Grouped Grouped Unsigned32 Enumerated Enumerated	29.215
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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-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	UTF8String	29.215
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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-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	UTF8String	29.215 [22]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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 2302 SIP-Response-Timestamp-Fraction 2303 Online-Charging-Flag	UTF8String	29.215 [22]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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	UTF8String	29.215 [22]
2104 Delivery-Status 2105 reserved 2106 reserved 2107 reserved 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-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	UTF8String	29.215

2307 MBMS GW-Address	Address	
2308 IMSI-Unauthenticated-Flag	Enumerated	
2309 Account-Expiration	Time	
2310 AoC-Format	Enumerated	
2311 AoC-Service	Enumerated	
2312 AoC-Service-Obligatory-Type	Grouped	
2313 AoC-Service-Type	Enumerated	
2314 AoC-Subscription-Information	Grouped	
2315 Preferred-AoC-Currency	Unsigned32	
2316 Reserved	-	
2317 CSG-Access-Mode	Enumerated	
2318 CSG-Membership-Indication	Enumerated	
2319 User-CSG-Information	Grouped	
2320 Outgoing-Session-Id	UTF8String	
2321 Initial-IMS-Charging-Identifier	UTF8String	-
2322 IMS-Emergency-Indicator	Enumerated	-
2323 MBMS-Charged-Party	Enumerated	_
Note: The AVP codes from 2324 to 2399 are reserved for TS 32.299.	Lituillelated	
2400 LMSI	OctotString	
	OctetString	_
2401 Serving-Node	Grouped	_
2402 MME-Name	DiameterIdentity	_
2403 MSC-Number	OctetString	
2404 LCS-Capabilities-Sets	Unsigned32	4
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	Grouped	
2503 LCS-Priority	Unsigned32	
2504 LCS-QoS	Grouped	
2505 Horizontal-Accuracy	Unsigned32	
2506 Vertical-Accuracy	Unsigned32	
2507 Vertical-Requested	Enumerated	
2508 Velocity-Requested	Enumerated	
2509 Response-Time	Enumerated	
2510 Supported-GAD-Shapes	Unsigned32	
2511 LCS-Codeword	UTF8String	
2512 LCS-Privacy-Check	Enumerated	-
2513 Accuracy-Fulfilment-Indicator	Enumerated	-
2514 Age-Of-Location-Estimate	Unsigned32	
2515 Velocity-Estimate	OctetString	
2516 EUTRAN-Positioning-Data	OctetString	29.172
2516 ECGI	OctetString	[24]
2517 ECGI 2518 Location-Event	Enumerated	- [²⁴]
2519 Pseudonym-Indicator	Enumerated	_
2520 LCS-Service-Type-ID	Unsigned32	
2521 LCS-Privacy-Check-Non-Session	Grouped	
2522 LCS-Privacy-Check-Session	Grouped	
2523 LCS-QoS-Class	Enumerated	
2524 GERAN-Positioning-Info	Grouped	
2525 GERAN-Positioning-Data	OctetString	
2526 GERAN-GANSS-Positioning-Data	OctetString	
2527 UTRAN-Positioning-Info	Grouped	
2528 UTRAN-Positioning-Data	OctetString	
2529 UTRAN-GANSS-Positioning-Data	OctetString	
2530 LRR-Flags	Unsigned32	
2531 LCS-Reference-Number	OctetString	
2532 Deferred-Location-Type	Unsigned32	
2532 Deferred-Location-Type 2533 Area-Event-Info	Unsigned32 Grouped	

		1
2534 Area-Definition	Grouped	
2535 Area	Grouped	
2536 Area-Type	Unsigned32	
2537 Area-Identification	Grouped	
2538 Occurrence-Info	Enumerated	
2539 Interval-Time	Unsigned32	
2540 Periodic-LDR-Information	Grouped	
2541 Reporting-Amount	Unsigned32	
2542 Reporting-Interval	Unsigned32	
2543 Reporting-PLMN-List	Grouped	
2544 PLMN-ID-List	Grouped	
2545 PLR-Flags	Unsigned32	
2546 PLA-Flags	Unsigned32	
2547 Deferred-MT-LR-Data	Grouped	
2548 Termination-Cause	Unsigned32	
2549 LRA-Flags	Unsigned32	
	Enumerated	
2550 Periodic-Location-Support-Indicator		_
2551 Prioritized-List-Indicator	Enumerated	_
2552 ESMLC-Cell-Info	Grouped	
2553 Cell-Portion-ID	Unsigned32	\dashv
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.	2.234	
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	02.200 [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.	Unsigned32	
2700 Reserved		
2700 Reserved 2701 Transit-IOI-List	- UTF8String	
2701 Italist-Iot-List 2702 Status-AS-Code		
	Enumerated	_
2703 NNI-Information	Grouped	_
2704 NNI-Type	Enumerated	_
2705 Neighbour-Node-Address	Address	\dashv
2706 Relationship-Mode	Enumerated	_
2707 Session-Direction	Enumerated	\dashv
2708 From-Address	UTF8String	32.299 [5]
2709 Access-Transfer-Information	Grouped	
2710 Access-Transfer-Type	Enumerated	
2711 Related-IMS-Charging-Identifier	UTF8String	
2712 Related-IMS-Charging-Identifier-Node	Address	
2713 IMS-Visited-Network-Identifier	UTF8String	
2714 TWAN-User-Location-Info	Grouped	
2715 Reserved	<u>-</u>	
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	00.5:-
2802 TDF-Application-Instance-Identifier	OctetString	29.212
2803 HeNB-BBF-FQDN	UTF8String	[19]
2804 HeNB-Local-IP-Address	Address	

		1
2805 UE-Local-IP-Address	Address	
2806 UDP-Source-Port	Unsigned32	
2807 CS-Service-Qos-Request-Identifier	OctetString	
2808 CS-Service-QoS-Request-Operation	Enumerated	4
2809 Mute-Notification	Enumerated	4
2810 Monitoring-Time	Time	4
2811 AN-GW-Status	Enumerated	4
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	4
2819 RAN-NAS-Release-Cause	OctetString	4
2820 Presence-Reporting-Area-Elements-List	OctetString	
2821 Presence-Reporting-Area-Identifier	OctetString	
2822 Presence-Reporting-Area-Information	Grouped	_
2823 Presence-Reporting-Area-Status	Unsigned32	_
2824 NetLoc-Access-Support	Unsigned32	4
2825 Fixed-User-Location-Info	Grouped	4
2826 PCSCF-Restoration-Indication	Unsigned32	4
2827 IP-CAN-Session-Charging-Scope	Enumerated	4
2828 Monitoring-Flags	Unsigned32	4
2829 Default-Access	Enumerated	4
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	4
2848 Extended-APN-AMBR-DL	Unsigned32	4
2849 Extended-APN-AMBR-UL	Unsigned32	4
2850 Extended-GBR-DL	Unsigned32	4
2851 Extended-GBR-UL	Unsigned32	4
2852 Max-PLR-DL	Unsigned32	4
2853 Max-PLR-UL	Unsigned32	4
2854 UE-Status	Unsigned32	
Note: The AVP codes from 2855 to 2899 are reserved for TS 29.212.		1
2900 reserved	-	4
2901 Policy-Counter-Identifier	Grouped	4
2902 Policy-Counter-Status	UTF8String	
2903 Policy-Counter-Status-Report	Grouped	29.219
2904 SL-Request-Type	Enumerated	[26]
2905 Pending-Policy-Counter-Information	Grouped	4
2906 Pending-Policy-Counter-Change-Time	Time	4
2907 SN-Request-Type	Unsigned32	
Note: The AVP codes from 2908 to 2999 are reserved for TS 29.219.		1
3000 reserved	-	4
3001 Device-Action	Grouped	29.368
3002 Device-Notification	Grouped	[27]
3003 Trigger-Data	Grouped	_ ''
3004 Payload	OctetString	1

	1	
3005 Action-Type	Enumerated	
3006 Priority-Indication	Enumerated	
3007 Reference-Number	Unsigned32	
3008 Request-Status	Enumerated	
3009 Delivery-Outcome	Enumerated	
3010 Application-Port-Identifier	Unsigned32	
3011 Old-Reference-Number	Unsigned32	
3012 Feature-Supported-In-Final-Target	Unsigned32	
Note: The AVP codes from 3013 to 3099 are reserved for TS 29.368.	0 + 101 :	
3100 IP-SM-GW-Number	OctetString	
3101 IP-SM-GW-Name	DiameterIdentity	_
3102 User-Identifier	Grouped	
3103 Service-ID	Enumerated	
3104 SCS-Identity	OctetString	
3105 Service-Parameters	Grouped	_
3106 T4-Parameters	Grouped	
3107 Service-Data	Grouped	_
3108 T4-Data	Grouped	_
3109 HSS-Cause	Unsigned32	
3110 SIR-Flags	Unsigned32	-
3111 External-Identifier	UTF8String	-
3112 IP-SM-GW-Realm	DiameterIdentity	-
3113 AESE-Communication-Pattern 3114 Communication-Pattern-Set	Grouped Grouped	-
	Unsigned32	_
3115 Periodic-Communication-Indicator		_
3116 Communication-Duration-Time 3117 Periodic-Time	Unsigned32	
	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 Grouped	_
3123 Monitoring-Event-Report 3124 SCEF-Reference-ID	Unsigned32	
3125 SCEF-ID	DiameterIdentity	
3126 SCEF-Reference-ID-for-Deletion		
3127 Monitoring-Type	Unsigned32 Unsigned32	29.336
3128 Maximum-Number-of-Reports	Unsigned32	
3129 UE-Reachability-Configuration	Grouped	[28]
3130 Monitoring-Duration	Time	
3131 Maximum-Detection-Time	Unsigned32	_
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	1
3139 Roaming-Information	Unsigned32	1
3140 Reachability-Information	Unsigned32	1
3141 IMEI-Change	Unsigned32	1
3142 Monitoring-Event-Config-Status	Grouped	1
3143 Supported-Service	Grouped	†
3144 Supported-Monitoring-Event	Unsigned64	7
3145 CIR-Flags	Unsigned32	7
3146 Service-Result	Grouped	7
3147 Service-Result-Code	Unsigned32	7
3148 Reference-ID-Validity-Time	Time	1
3149 Event-handling	Unsigned32	7
3150 NIDD-Authorization-Request	Grouped	7
3151 NIDD-Authorization-Response	Grouped	7
3152 Service-Report	Grouped	7
3153 Node-Type	Unsigned32	7
3154 S6t-HSS-Cause	Unsigned32	1
3155 Enhanced-Coverage-Restriction	Grouped	1
<u> </u>		

3156 Enhanced-Coverage-Restriction-Data	Grouped	
3157 Restricted-PLMN-List	Grouped	
3158 Allowed-PLMN-List	Grouped	
3159 Requested-Validity-Time	Time	
3160 Granted-Validity-Time 3161 NIDD-Authorization-Update	Time	
3162 Loss-Of-Connectivity-Reason	Grouped 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
3200 SM-Delivery-Outcome-T4	Enumerated	- 00 007
3201 Absent-Subscriber-Diagnostic-T4 3202 Trigger-Action	Enumerated Unsigned32	29.337
3202 Trigger-Action 3203 MTC-Error-Diagnostic	Unsigned32 Unsigned32	[29]
Note: The AVP codes from 3204 to 3299 are reserved for TS 29.337.	Unsigned32	
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 3320 IP-SM-GW-SM-Delivery-Outcome	Grouped Grouped	
3320 IP-SM-GW-SM-Delivery-Outcome 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.		

	reserved	-	4
	Reason-Header	UTF8String	
	Instance-Id	UTF8String	_
	Route-Header-Received	UTF8String	
	Route-Header-Transmitted	UTF8String	_
	SM-Device-Trigger-Information MTC-IWF-Address	Grouped Address	4
	SM-Device-Trigger-Indicator	Enumerated	
	SM-Sequence-Number	Unsigned32	-
	SMS-Result	Unsigned32	-
	VCS-Information	Grouped	_
	Basic-Service-Code	Grouped	_
	Bearer-Capability	OctetString	_
	Teleservice	OctetString	_
	ISUP-Location-Number	OctetString	
	Forwarding-Pending	Enumerated	
	ISUP-Release-Cause	Unsigned32	
	MSC-Address	OctetString	
	Network-Call-Reference-Number	OctetString	
	Start-of-Charging	Time	
	VLR-Number	OctetString	1
	CN-Operator-Selection-Entity	Enumerated	1
	ISUP-Cause-Diagnostics	OctetString	1
	ISUP-Cause-Location	Unsigned32	
	ISUP-Cause-Value	Unsigned32	
	EPDG-Address	Address	
	Announcing-UE-HPLMN-Identifier	UTF8String	
	Announcing-UE-VPLMN-Identifier	UTF8String	
	Coverage-Status	Enumerated	
	Layer-2-Group-ID	OctetString	
	Monitored-PLMN-Identifier	UTF8String	
	Monitoring-UE-HPLMN-Identifier	UTF8String	
	Monitoring-UE-Identifier	UTF8String	32.299 [5]
	Monitoring-UE-VPLMN-Identifier	UTF8String	
	ProSe-PC3-Control-Protocol-Cause	Integer32	
	ProSe-PC3-EPC-Control-Protocol-Cause	Integer32	
	Requested-PLMN-Identifier	UTF8String	
	Requestor-PLMN-Identifier	UTF8String	
3438	Role-Of-ProSe-Function	Enumerated	
3439	Usage-Information-Report-Sequence-Number	Integer32	
3440	ProSe-3rd-Party-Application-ID	UTF8String	
	ProSe-Direct-Communication-Transmission-Data-Container	Grouped	
3442	ProSe-Direct-Discovery-Model	Enumerated	
	ProSe-Event-Type	Enumerated	
	ProSe-Function-IP-Address	Address	
	ProSe-Functionality	Enumerated	
	ProSe-Group-IP-Multicast-Addresses	Address	
	ProSe-Information	Grouped	
	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	1
	Proximity-Cancellation-Timestamp	Time	1
	ProSe-Function-PLMN-Identifier	UTF8String	1
	Application-Specific-Data	OctetString	1
	Coverage-Info	Grouped	1
	Location-Info	Grouped	4
	ProSe-Direct-Communication-Reception-Data-Container	Grouped	4
	Radio-Frequency	OctetString]
0 100		<u> </u>	
	Radio-Parameter-Set-Info Radio-Parameter-Set-Values	Grouped OctetString]

3465 Fine-First-Reception Time Time	0.405			1
3466 Transmitter-Info Note: The AVP codes from 3469 to 3499 are reserved for TS 32.299.			Integer32	4
March Marc				4
Note: The AVP codes from 3469 to 3499 are reserved for TS 32.299.				4
Sample Address Address Address Sample Sample			Grouped	
Sign BMSC-Port			A .l.l	1
MBMS-Bearrer-Event Notification				=
Signature Grouped				4
MBMS-Bearer-Reguest Grouped				4
MBMS-Bearer-Response				4
MBMS-Bearer-Result				4
MBMS-Start-Time				+
				+
				+
3510 TMGI-Allocation-Response Grouped				+
3511 TMGI-Allocation-Result Unsigned32 S12 TMGI-Deallocation-Result Grouped S13 TMGI-Deallocation-Result Unsigned32 S14 TMGI-Deallocation-Result Unsigned32 S15 TMGI-Deallocation-Result Unsigned32 S16 Unsigned32 S17 MBQI-Security Unsigned32 S17 MBQI-Security Unsigned32 S18 Local-M1-Information Grouped Groupe				+
3512 TMGI-Deallocation-Reguest Grouped				+
3513 TMGI-Deallocation-Response Grouped 3514 TMGI-Deallocation-Result Unsigned32 3515 TMGI-Deallocation-Result Unsigned32 3515 TMGI-Number Unsigned32 3517 MR2U-Security Unsigned32 3517 MR2U-Security Unsigned32 3518 Local-M1-Information Grouped 3520 MBMS-eNB-IP-Multicast-Address Address Address Address 3521 MBMS-eNB-IP-Multicast-Address Address Address Address Address Address 3522 MBMS-eNB-IP-Multicast-Address Address A				+
17MGI-Deallocation-Result				+
29,468 3515 TMGI-Expiry Grouped 29,468 311 3516 TMGI-Number Unsigned32 3517 MB2U-Security Unsigned32 3518 Local-M1-Information Grouped 3520 MBMS-eNB-IP-Multicast-Address Address				+
1516 TMGI-Number				=
1311 MB2U-Security				
Safia Local-M3-Information Grouped				[31]
			<u>U</u>	=
MBMS-eNB-IP-Multicast-Address Address Address				=
BBMS-eNB-IPV6-Multicast-Address Address				-
SE22 MBMS-GW-SSM-IP-Address				=
				=
Seza				=
S252 FEC-Request Grouped				=
S252 ROHC-Request Grouped				
S527 ROHC-Full-Header-Periodicity Float32				
3528 ROHC-Profile				-
3529 Userplane-Protocol-Result Grouped				+
3530 ROHC-Result				
3531 FEC-Result				
3532 ROHC-Max-CID				
Note: The AVP codes from 3533 to 3599 are reserved for TS 29.468.				
3600 Origin-App-Layer-User-Id UTF8String 3601 Target-App-Layer-User-Id UTF8String 3602 ProSe-Function-ID OctetString 3603 ProSe-Request-Type Unsigned32 3604 PDUID OctetString 3605 Application-Data UTF8String 3606 Allowed-Suffixes-Number Unsigned32 3607 Monitor-Target Grouped 3608 ProSe-Code-Suffix-Mask Grouped 3609 Suffix-Code OctetString 3610 Suffix-Mask OctetString 3611 Banned-User-Target Grouped 3612 Metadata-Indicator Unsigned32 Mote: The AVP codes from 3613 to 3699 are reserved for TS 29.343 3701 ProSe-Subscription-Data Grouped 3702 ProSe-Permission Unsigned32 3703 ProSe-Allowed-PLMN Grouped 3704 ProSe-Direct-Allowed Unsigned32 3705 PNR-Flags Unsigned32 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 3708 Authorized-Discovery-Range Unsigned32 3800 Reserved 3800 Reserved UTF8String 3801 App-Layer-User-Id UTF8String 3614 UTF8String 3601 App-Layer-User-Id UTF8String 3601			energine de	
3601 Target-App-Layer-User-Id UTF8String 3602 ProSe-Function-ID OctetString 3603 ProSe-Request-Type Unsigned32 3604 PDUID OctetString 3605 Application-Data UTF8String 3606 Application-Data UTF8String 3606 Allowed-Suffixes-Number Unsigned32 3607 Monitor-Target Grouped 3608 ProSe-Code-Suffix-Mask Grouped 3609 Suffix-Code OctetString 3610 Suffix-Mask OctetString 3611 Banned-User-Target Grouped 3612 Metadata-Indicator Unsigned32 Mote: The AVP codes from 3613 to 3699 are reserved for TS 29.343. 3701 ProSe-Subscription-Data Grouped 3702 ProSe-Permission Unsigned32 3703 ProSe-Allowed-PLMN Grouped 3704 ProSe-Direct-Allowed Unsigned32 3705 UPR-Flags Unsigned32 3706 PNR-Flags Unsigned32 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344. 3800 Reserved 3800 Reserved 3801 App-Layer-User-Id UTF8String 3601 App-Layer-User-Id UTF8Stri			UTF8String	
3602 ProSe-Function-ID OctetString 3603 ProSe-Request-Type Unsigned32 3604 PDUID OctetString 3605 Application-Data UTF8String 3606 Application-Data Unsigned32 3607 Monitor-Target Grouped 3608 ProSe-Code-Suffix-Mask Grouped 3610 Suffix-Code OctetString 3611 Banned-User-Target Grouped 3612 Metadata-Indicator Unsigned32 Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343. Grouped 3701 ProSe-Subscription-Data Grouped 3703 ProSe-Permission Unsigned32 3703 ProSe-Allowed-PLMN Grouped 3704 ProSe-Direct-Allowed Unsigned32 3705 UPR-Flags Unsigned32 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 Note: The AVP codes from 3709 to 3799 are reserved for TS 29.344. Unsigned32 3				
3603 ProSe-Request-Type Unsigned32 3604 PDUID OctetString 3605 Application-Data UTF8String 3606 Allowed-Suffixes-Number Unsigned32 3607 Monitor-Target Grouped 3608 ProSe-Code-Suffix-Mask Grouped 3608 ProSe-Code-Suffix-Mask Grouped 3609 Suffix-Code OctetString 3610 Suffix-Mask OctetString 3611 Banned-User-Target Grouped 3612 Metadata-Indicator Unsigned32 Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343. 3701 ProSe-Subscription-Data Grouped 3702 ProSe-Permission Unsigned32 3703 ProSe-Allowed-PLMN Grouped 3704 ProSe-Direct-Allowed Unsigned32 29.344 3705 UPR-Flags Unsigned32 3706 PNR-Flags Unsigned32 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 3708 Authorized-Discovery-Range Unsigned32 3708 Average Unsigned32 3708 Average Unsigned32 3709 Average Unsigned32 3708 Average Unsigned32 3709 Average Unsigned32 Average Unsigned32 Average Unsigned32 3709 Average Unsigned32 Average Unsigned32 Average Unsigned32 Average Unsigned32 Average Unsigned32 Average				
3604 PDUID OctetString 3605 Application-Data UTF8String 29.343 3606 Allowed-Suffixes-Number Unsigned32 3607 Monitor-Target Grouped Grouped 3608 ProSe-Code-Suffix-Mask Grouped OctetString 3610 Suffix-Code OctetString 3611 Banned-User-Target Grouped Grouped 3612 Metadata-Indicator Unsigned32 Metadata-Indicator Unsigned32 Note: The AVP codes from 3613 to 3699 are reserved for TS 29.343. 3701 ProSe-Subscription-Data Grouped 3702 ProSe-Permission Unsigned32 3703 ProSe-Allowed-PLMN Grouped 3704 ProSe-Direct-Allowed Unsigned32 29.344 3705 UPR-Flags Unsigned32 3706 PNR-Flags Unsigned32 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 Unsigned32 3708 Authorized-Discovery-Range Unsigned32 Unsigned32 3708 Authorized-Discovery-Range Unsigned32 3800 Reserved 3800 Reserved UTF8String 3411				
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3801 App-Layer-User-Id UTF8String 29.345				
3801 App-Layer-User-id UT-85tring				29 345
3802 Assistance-info Grouped [34]				
	3802	Assistance-info	Grouped	[0-7]

· · · · ·	_ _
3803 Assistance-Info-Validity-Timer	Unsigned32
3804 Discovery-Type	Unsigned32
3805 Filter-Id	OctetString
3806 MAC-Address	UTF8String
3807 Match-Report	Grouped
3808 Operating-Channel	Unsigned32
3809 P2P-Features	Unsigned32
3810 ProSe-App-Code	UTF8String
3811 ProSe-App-Id	UTF8String
3812 ProSe-App-Mask	UTF8String
3813 ProSe-Discovery-Filter	Grouped
3814 PRR-Flags	Unsigned32
3815 ProSe-Validity-Timer	Unsigned32
3816 Requesting-EPUID	UTF8String
3817 Targeted-EPUID	UTF8String
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
3825 Change-Of-Area-Type	Grouped
3826 Location-Update-Event-Trigger	Unsigned32
3827 Report-Cardinality	Enumerated
3828 Minimum-Interval-Time	Unsigned32
3829 Periodic-Location-Type	Grouped
3830 Location-Report-Interval-Time	Unsigned32
3831 Total-Number-Of-Reports	Unsigned32
3832 Validity-Time-Announce	Unsigned32
3833 Validity-Time-Monitor	Unsigned32
3834 Validity-Time-Communication	Unsigned32
3835 ProSe-App-Code-Info	Grouped
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
3844 Target-RPAUID	UTF8String
3845 Target-PDUID	OctetString
3846 ProSe-Restricted-Code	OctetString
3847 ProSe-Restricted-Code-Suffix-Range	OctetString
3848 Beginning-Suffix	OctetString
3849 Ending-Suffix	OctetString
3850 Discovery-Entry-ID	Unsigned32
3851 Match-Timestamp	Time
3852 PMR-Flags	Unsigned32
3853 ProSe-Application-Metadata	UTF8String
3854 Discovery-Auth-Request	Grouped
3855 Discovery-Auth-Response	Grouped
3856 Match-Request	Grouped
3857 Match-Report-Info	Grouped
3858 Banned-RPAUID	UTF8String
3859 Banned-PDUID	OctetString
3860 Code-Receiving-Security-Material	Grouped
3861 Code-Sending-Security-Material	Grouped
3862 DUSK	OctetString
3863 DUIK	OctetString
3864 DUCK	OctetString
3865 MIC-Check-indicator	Unsigned32
3866 Encrypted-Bitmask	OctetString
3867 ProSe-App-Code-Suffix-Range	OctetString
Tool It 100e-App-00de-0dilly-realige	Octeroung

0000	DOC 4I	0-4-404	1
	PC5-tech The AVD codes from 3960 to 3900 are recorded for TS 20 345	OctetString	
	The AVP codes from 3869 to 3899 are reserved for TS 29.345. Reserved		
	Enhanced-Diagnostics	Grouped	-
	Inter-UE-Transfer	Enumerated	+
	TWAG-Address	Address	1
	Announcement-Information	Grouped	
	Announcement-Identifier	Unsigned32	
3906	Announcement-Order	Unsigned32	
	Variable-Part	Grouped	
3908	Variable-Part-Order	Unsigned32	
	Variable-Part-Type	Unsigned32	
	Variable-Part-Value	UTF8String	
	Time-Indicator	Unsigned32	
	Quota-Indicator	Enumerated	
	Play-Alternative	Enumerated	
	Language	UTF8String	
	Privacy-Indicator	Enumerated	_
	Called-Identity	UTF8String	
	Called-Identity-Change	Grouped	_
	UWAN-User-Location-Info	Grouped	4
	Monitoring-Event-Configuration-Activity Monitoring Event Report Date	Integer32	-
3024	Monitoring-Event-Report-Data Monitoring-Event-Information	Grouped Grouped	32.299 [5]
	Monitoring-Event-Information Monitoring-Event-Functionality	Integer32	_32.299 [3]
	Monitoring-Event-Report-Number	Unsigned32	-
	Cellular-Network-Information	OctetString	-
	Related-Change-Condition-Information	Grouped	-
	Related-Trigger	Grouped	+
	CPDT-Information	Grouped	1
	NIDD-Submission	Grouped	
	Serving-Node-Identity	DiameterIdentity	
	CP-CIoT-EPS-Optimisation-Indicator	Enumerated	
	SGi-PtP-Tunnelling-Method	Enumerated	
	UNI-PDU-CP-Only-Flag	Enumerated	
3933	APN-Rate-Control	Grouped	
3934	APN-Rate-Control-Downlink	Grouped	
	APN-Rate-Control-Uplink	Grouped	
	Additional-Exception-Reports	Enumerated	
	Rate-Control-Max-Message-Size	Unsigned32	
	Rate-Control-Max-Rate	Unsigned32	
	Rate-Control-Time-Unit	Unsigned32	
	SCS-AS-Address	Grouped	
	SCS-Address	Address	_
	SCS-Realm The AVR codes from 2042 to 2000 are received for TS 22 200	DiameterIdentity	1
	The AVP codes from 3943 to 3999 are reserved for TS 32.299. Aggregated-Congestion-Info	Grouped	
	Aggregated-Congestion-Inio Aggregated-RUCI-Report	Grouped	-
	Aggregated-ROCI-Report Congestion-Level-Definition	Grouped	+
	Congestion-Level-Range	Unsigned32	-
	Congestion-Level-Natige Congestion-Level-Set-Id	Unsigned32	1
	Congestion-Level-Value	Unsigned32	1
	Congestion-Level-value Congestion-Location-Id	Grouped	29.217
	Conditional-Restriction	Unsigned32	[35]
	eNodeB-Id	OctetString	
	IMSI-List	OctetString	
	RCAF-Id	DiameterIdentity	
	Reporting-Restriction	Unsigned32	
	RUCI-Action	Unsigned32	
	Extended-eNodeB-ID	OctetString	
	The AVP codes from 4014 to 4099 are reserved for TS 29.217.		
	Network-Congestion-Area-Report	Grouped	29.153
	Ns-Request-Type	Unsigned32	[37]
	The AVP codes from 4103 to 4199 are reserved for TS 29.153.		Т
14201	Network-Area-Info-List	OctetString	1

1000 D (0.4.404	1
4202 Reference-Id	OctetString	
4203 Transfer-Request-Type	Unsigned32	
4204 Time-Window	Grouped	
4205 Transfer-End-Time	Time	
4206 Transfer-Start-Time	Time	
4207 Transfer-Policy	Grouped	
4208 Transfer-Policy-Id	Unsigned32	29.154
4209 Number-Of-UEs	Unsigned32	[38]
4210 Access-Network-Reports	Grouped	[50]
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-Configuration	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	OrtetString	[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	32.299 [5]
4407 Unused-Quota-Timer	Unsigned32	32.299 [3]
4408 Announcing-PLMN-ID	UTF8String	
4409 ProSe-UE-to-Network-Relay-UE-ID	OctetString	
4410 ProSe-Target-Layer-2-ID	OctetString	
4411 Relay-IP-address	Address	
4412 Target-IP-Address	Address	
4413 FE-Identifier-List	UTF8String	
Note: The AVP codes from 4414 to 4499 are reserved for TS 32.299		•
4500 MCPTT-ID	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	[22]
4506 DUR-Flags	Unsigned32	
4507 DUA-Flags	Unsigned32	
	Unoignous_	I

4508 NDR-Flags		Unsigned32	
4509 NDA-Flags		Unsigned32	
4510 User-Data-Id		Unsigned32	
4511 MC-Service-User-Profile-Data		Grouped	
4512 Sequence-Number		Unsigned32	
4513 MCVideo-ID		UTF8String	
4514 MC-Data-ID		UTF8String	
Note: The AVP codes from 4515 to 45	599 are reserved for TS 29.283.		
4600 V2X-PC5-Allowed-PLMN		Grouped	29.388
4601 V2X-Update-Flags		Unsigned32	[40]
4602 V2X-Notify-Flags		Unsigned32	[40]
Note: The AVP codes from 4603 to 4	799 are reserved for TS 29.388.		
4700 V2X-Authorization-Data		Grouped	29.389
4701 V2X-Permission-in-VPLMN		Unsigned32	[41]
4702 V2X-Application-Server		Grouped	[41]
Note: The AVP codes from 4703 to 47	799 are reserved for TS and TS 2	9.389.	
			29.561
			[42]
Note: The AVP codes from 4800 to 49	999 are reserved for TS and TS 2	9.561.	

8 Experimental result codes

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

8.1 3GPP specific result codes

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

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

8.1.1 Informational

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

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

8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

Experimental	Result text	Specified in the TS
Result Code		
2001	DIAMETER_FIRST_REGISTRATION	
2002	DIAMETER_SUBSEQUENT_REGISTRATION	
2003	DIAMETER_UNREGISTERED_SERVICE	29.229 [2]
2004	DIAMETER_SUCCESS_SERVER_NAME_NOT_STORED	
2005	Deprecated value	
Note: The Experim	ental Result Codes from 2006 to 2020 are reserved for the TS 29.229.	
2021	DIAMETER_PDP_CONTEXT_DELETION_INDICATION	29.061 [13]
Note: The Experim	ental Result Codes from 2022 to 2040 are reserved for the TS 29.061	
		29.109 [7]
Note: The Experim	ental Result Codes from 2401 to 2420 are reserved for the TS 29.109.	
2421	DIAMETER_QOS_FLOW_DELETION_INDICATION	29.561 [42]
Note: The Experim	ental Result Codes from 2422 to 2440 are reserved for the TS 29.561.	

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result Code	Result text	Specified in the TS
4100	DIAMETER_USER_DATA_NOT_AVAILABLE	29.329 [4]
4101	DIAMETER_PRIOR_UPDATE_IN_PROGRESS	
Note: The Experime	ntal Result Codes from 4102 to 4120 are reserved for the TS 29.329.	
4121	DIAMETER_ERROR_OUT_OF_RESOURCES	29.061 [13]
Note: The Experime	ntal Result Codes from 4122 to 4140 are reserved for the TS 29.061.	
4141	DIAMETER_PCC_BEARER_EVENT	
4142	DIAMETER_BEARER_EVENT	
4143	DIAMETER_AN_GW_FAILED	29.212 [19]
4144	DIAMETER_PENDING_TRANSACTION	
4145	DIAMETER_UE_STATUS_SUSPEND	
Note: The Experime	ntal Result Codes from 4146 to 4160 are reserved for the TS 29.212	
		32.299 [5]
Note: The Experime	ntal Result Codes from 4161 to 4180 are reserved for the TS 32.299.	
4181	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	29.272 [21]
4182	DIAMETER_ERROR_CAMEL_SUBSCRIPTION_PRESENT	29.272 [21]
Note: The Experime	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.	
4201	DIAMETER_ERROR_ABSENT_USER	29.173 [25]
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.	
4221	DIAMETER_ERROR_UNREACHABLE_USER	
4222	DIAMETER_ERROR_SUSPENDED_USER	
4223	DIAMETER_ERROR_DETACHED_USER	29.172 [24]
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]
4225	DIAMETER_ERROR_POSITIONING_FAILED	
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT	
Note: The Experime	ntal Result Codes from 4227 to 4240 are reserved for the TS 29.172.	
4241	DIAMETER_ERROR_NO_AVAILABLE_POLICY_COUNTERS	29.219 [26]
Note: The Experime	ntal Result Codes from 4242 to 4260 are reserved for the TS 29.219.	
4261	REQUESTED_SERVICE_TEMPORARILY_NOT_AUTHORIZED	29.214 [18]
Note: The Experime	ntal Result Codes from 4262 to 4280 are reserved for the TS 29.214.	

8.1.4 Permanent Failures

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

Table 8.1.4: 3GPP specific Permanent Failure result codes

Experimental Result Code	Result text	Specified in the TS
5001	DIAMETER_ERROR_USER_UNKNOWN	
5002	DIAMETER_ERROR_IDENTITIES_DONT_MATCH	
5003	DIAMETER_ERROR_IDENTITY_NOT_REGISTERED	
5004	DIAMETER_ERROR_ROAMING_NOT_ALLOWED	
5005	DIAMETER_ERROR_IDENTITY_ALREADY_REGISTERED	
5006	DIAMETER_ERROR_AUTH_SCHEME_NOT_SUPPORTED	
5007	DIAMETER_ERROR_IN_ASSIGNMENT_TYPE	29.229 [2]
5008	DIAMETER_ERROR_TOO_MUCH_DATA	
5009	DIAMETER_ERROR_NOT_SUPPORTED_USER_DATA	
5010	unassigned	
5011	DIAMETER ERROR FEATURE UNSUPPORTED	
5012	DIAMETER_ERROR_SERVING_NODE_FEATURE_UNSUP PORTED	
Note: The Expe	rimental Result Codes from 5013 to 5020 are reserved for the T	S 29.229. 32.299 [5]
Note: The Eyne	I primental Result Codes from 5021 to 5040 are reserved for the T	
5041	DIAMETER ERROR USER NO WLAN SUBSCRIPTION	3 32.299.
5041	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5042	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBS	
	CRIPTION	29.234 [6]
5044	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION	
5045	DIAMETER_ERROR_UNSUITABLE_NETWORK	2 2 2 2 2 4
	erimental Result Codes from 5046 to 5060 are reserved for the T	S 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	29.209 [8],
5064	DUPLICATED_AF_SESSION	29.209 [0],
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.214 [18]
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	23.214[10]
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
5068	TEMPORARY_NETWORK_FAILURE	
	erimental Result Codes from 5069 to 5080 are reserved for TS 29 TS 29.214.	9.209, TS 29.211
5100	DIAMETER_ERROR_USER_DATA_NOT_RECOGNIZED	
5101	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	29.329 [4]
5105	DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
	erimental Result Codes from 5109 to 5119 are reserved for the T	S 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER ERROR STOP INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVI	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
	erimental Result Codes from 5124 to 5139 are reserved for the T	S 29 061
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	5 25.001.
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
	DIAMETER_PCC_RULE_EVENT DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	
5143 5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECTE	20 242 [40]
5145	DIAMETER_QOS_RULE_EVENT	29.212 [19]
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
5148	DIAMETER_ADC_RULE_EVENT	
5149	DIAMETER_ERROR_NBIFOM_NOT_AUTHORIZED	2 22 242
Note: The Expe	erimental Result Codes from 5150 to 5159 are reserved for the T	5 29.212.

5401	DIAMETER_ERROR_IMPI_UNKNOWN	
5402	DIAMETER_ERROR_NOT_AUTHORIZED	29.109 [7
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALI	29.109 [1
	D	
	erimental Result Codes from 5404 to 5419 are reserved for the TS	S 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER_ERROR_EQUIPMENT_UNKNOWN	
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	
Note: The Exp	erimental Result Codes from 5424 to 5449 are reserved for the T	S 29.272.
5450	DIAMETER_ERROR_USER_NO_NON_3GPP_SUBSCRIPTI	
	ON	
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	29.273 [20]
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	29.273 [20]
5453	DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST	
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST	
Note: The Exp	erimental Result Codes from 5455 to 5469 are reserved for the T	S 29.273.
5470	DIAMETER_ERROR_SUBSESSION	
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHME	29.215 [22]
	NT	
Note: The Exp	perimental Result Codes from 5472 to 5489 are reserved for the TS	S 29.215.
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NET	
	WORK	29.173 [25]
Note: The Exp	erimental Result Codes from 5491 to 5509 are reserved for the T	S 29.173.
5510	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_ENT	
	ITY	
5511	DIAMETER_ERROR_UNAUTHORIZED_SERVICE	
5512	DIAMETER_ERROR_REQUESTED_RANGE_IS_NOT	
	ALLOWED	1001 000 00
5513	DIAMETER_ERROR_CONFIGURATION_EVENT_STORAG	29.336 [28]
	E_NOT_SUCCESSFUL	
5514	DIAMETER_ERROR_CONFIGURATION_EVENT_NON_EXI	
	STANT	
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	
Note: The Exp	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	
5533	DIAMETER_ERROR_TRIGGER_REPLACE_FAILURE	29.337 [29]
5534	DIAMETER_ERROR_TRIGGER_RECALL_FAILURE	
5535	DIAMETER_ERROR_ORIGINAL_MESSAGE_NOT_PENDIN	
	G	
Note: The Exp	perimental Result Codes from 5536 to 5549 are reserved for the TS	S 29.337.
5550	DIAMETER_ERROR_ABSENT_USER	
5551	DIAMETER_ERROR_USER_BUSY_FOR_MT_SMS	1
5552	DIAMETER_ERROR_FACILITY_NOT_SUPPORTED	1
5553	DIAMETER ERROR ILLEGAL USER	1
5554	DIAMETER_ERROR_ILLEGAL_EQUIPMENT	29.338 [30]
5555	DIAMETER_ERROR_SM_DELIVERY_FAILURE	20.000 [00]
5556	DIAMETER_ERROR_SERVICE_NOT_SUBSCRIBED	1
5557	DIAMETER_ERROR_SERVICE_BARRED	1
5558	DIAMETER_ERROR_MWD_LIST_FULL	
	perimental Result Codes from 5559 to 5569 are reserved for the T	L S 29 338
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
	Experimental Result Codes from 5571 to 5589 are reserved for the	
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	10 10 20.210.
5590	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	
5592	DIAMETER_ERROR_PFID_UNKNOWN	1
5593	DIAMETER_ERROR_APP_REGISTER_REJECT	
5594	DIAMETER_ERROR_APP_REGISTER_REJECT DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLOW	1
5594	ED	29.343 [32]
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	
5596	DIAMETER_ERROR_NIAP_REQUEST_REJECT DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN	1
5597	DIAMETER_ERROR_REQUESTING_RPAUID_UNKNOWN DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_S	1
5591	ET	
	DIAMETER_ERROR_MISSING_APPLICATION_DATA	1
5598		

5599	DIAMETER_ERROR_AUTHORIZATION_REJECT	
5600	DIAMETER_ERROR_DISCOVERY_NOT_PERMITTED	
5601	DIAMETER_ERROR_TARGET_RPAUID_UNKNOWN	
5602	DIAMETER_ERROR_INVALID_APPLICATION_DATA	
Note: The Expe	erimental Result Codes from 5603 to 5609 are reserved for the TS	\$ 29.343.
5610	DIAMETER_ERROR_UNKNOWN_PROSE_SUBSCRIPTION	
5611	DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]
5612	DIAMETER_ERROR_UE_LOCATION_UNKNOWN	
Note: The Expe	erimental Result Codes from 5613 to 5629 are reserved for the TS	\$ 29.344.
5630	DIAMETER_ERROR_NO_ASSOCIATED_DISCOVERY_FILT	
	ER	
5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN_	
	PLMN	
5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE	
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	
5634	DIAMETER_ERROR_PROXIMITY_REJECTED	
5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	20 245 [24]
5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THIS	29.345 [34]
	_PLMN	
5637	DIAMETER_ERROR_PROXIMITY_CANCELLED	
5638	DIAMETER_ERROR_INVALID_TARGET_PDUID	
5639	DIAMETER_ERROR_INVALID_TARGET_RPAUID	
5640	DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_CO	
	DE	
5641	DIAMETER_ERROR_INVALID_DISCOVERY_TYPE	
Note: The Expe	erimental Result Codes from 5642 to 5649 are reserved for the TS	S 29.345.
5650	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SER VED	
5651	DIAMETER_ERROR_INVALID_EPS_BEARER	
5652	DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAIL	29.128 [36]
	ABLE	
5653	DIAMETER_ERROR_USER_TEMPORARILY_UNREACHAB	
	LE	
Note: The Expe	erimental Result Codes from 5654 to 5669 are reserved for the TS	S 29.128.
5670	DIAMETER_ERROR_UNKNKOWN_DATA	29.283 [39]
5671	DIAMETER_ERROR_REQUIRED_KEY_NOT_PROVIDED	
Note: The Expe	erimental Result Codes from 5672 to 5689 are reserved for the TS	S 29.128.
5690	DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION	200 200 1401
5691	DIAMETER_ERROR_V2X_NOT_ALLOWED	29.388 [40]
Note: The Expe	erimental Result Codes from 5692 to 5709 are reserved for the TS	S 29.388.

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

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		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				Removal of User Data Request Type AVP	6.1.0
2004-09	CN#25	NP-040412		1	Re-numbering of 3GPP specific AVP codes.	6.1.0
2004-12	CN#26	NP-040579		•	Inclusion of missing Cx AVPs	6.2.0
2004-12	CN#26	NP-040580		1	Reservation of command code 310	6.2.0
2004-12	CN#26	NP-040579		1	Addition of Gmb interface	6.2.0
2004-12	CN#26	NP-040600		2	Documenting the Reuse of the 3GPP specific application identifier of Ro for	6.2.0
200112	0111120	111 010000	0.0	_	Re on the Charging Interfaces	0.2.0
2004-12	CN#26	NP-040579	011		Gg interface allocations	6.2.0
2004-12	CN#26	NP-040579			Addition of Gx interface	6.2.0
2005-03	CN#27	NP-050047		1	WLAN Diameter AVP and result codes	6.3.0
		NP-050039			Allocations for Gx interface	-
		NP-050039			Allocations for Gmb interface	
		NP-050039			Allocations for MMS, MM10 Interface	
2005-06	CT#28	CP-050088			Gx interface allocation correction	6.4.0
2000 00	01//20	CP-050196		1	Addition of Maximum-Number-Accesses AVP	- 0
2005-09	CT#29	CP-050440		1	Private identities on the Cx	6.5.0
2005 05	01#25	CP-050310		'	Addition of Pr reference point to TS 29.230	0.5.0
		CP-050310			Error code cleanup	
		CP-050310			Addition of Rx ref. point and renaming of Experimental Result Codes	
2005-09	CT#29	CP-050317			Addition of GUSS timestamp AVP	7.0.0
2005-09	CT#29	CP-050624			Addition of GBA-Type AVP	7.1.0
2003-12	01#30	CP-050612			Additional Gmb AVP Allocation	- /·····
		CP-050612			Reservation of AVP codes for 32.299	
		CP-050625			Management of Sh subscriptions	
2006-03	CT#31	CP-060073			Adding data type of some of WLAN-related AVPs	7.2.0
2000-03	C1#31	CP-060073			User-Data in the response to Sh-Subs-Notif	7.2.0
				1		
2000 00	OT#20	CP-060084		1	New error indications for the Sh-Subs-Notif procedure	700
2006-06	CT#32	CP-060302		2	S-CSCF reselection removal	7.3.0
2006-09	CT#33	CP-060417		3	New AVP Code	7.4.0
		CP-060417			Errors to be sent in response to Sh-Notif	
2000 40	CT#24	CP-060417		4	Definition of specific Diameter codes for DSAI	7.5.0
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			Allocation of new AVP codes for Gmb	
		CP-060555			AVP code allocations for Rf and Ro interfaces	
2007.00	OT#05	CP-060566			Allocation of Success Result Code Range for Gi Interface	7.00
2007-03	CT#35	CP-070020			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	0098		Experimental-Result-Codes for Gmb interface	
		CP-070312			Correction of Diameter AVP code allocation	
2007-09	CT#37	CP-070527			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	
2008-03	CT#39		0109		Correction of reference to TS 29.140	8.1.0
		CP-080019			AVP code reservation for TS 32.299 in Rel-8	
		CP-080019			Wildcarded Public User Identities	
			0112		Correction on AVP code allocation reservation for TS 32.299 in Rel-7	
		CP-080204			Correction on AVP code allocation reservation for TS 32.299	
2008-06	CT#40		0117	1	A new Diameter Permanent Failure Code for Gx	8.2.0
10000 00	CT#41	CP-080456			Emergency Public User Identity Removal	8.3.0
2008-09	LOT#44	CP-080460	0121	1	Support of "Loose-Route" indication from HSS	
2008-09	CT#41	0. 000.00		4	STaMIP Application Id	I
	CT#41	CP-080460	0122	1	STAIVIII Application id	
2008-09					Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment)	
2008-09 2008-09	CT#41	CP-080460	0123	1		8.3.0
2008-09 2008-09 2008-09	CT#41 CT#41	CP-080460 CP-080463 CP-080463	0123		Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment)	8.3.0 8.4.0
2008-09 2008-09 2008-09 2008-09	CT#41 CT#41 CT#41	CP-080460 CP-080463 CP-080463 CP-080691	0123 0124		Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment) New AVP Code Assignment for Forking Service Restoration	

2009-03	CT#43	CP-090044	0131	1	Handling LCS Subscription Data	8.5.0
2009-03	CT#43	CP-090026	0132		Update for Restoration	8.5.0
2009-03	CT#43	CP-090024			Applds for Gxx and S9	8.5.0
2009-03	CT#43	CP-090033			Appld and command code for Zpn	8.5.0
2009-03	CT#43	CP-090024			AVP codes for S9 protocol	8.5.0
2009-03	CT#43	CP-090024			Diameter AVP Code allocation	8.5.0
2009-03	CT#43	CP-090024			Location of Permanent Failure result code range for the S9 application	8.5.0
2009-03	CT#43	CP-090024		<u>'</u>	AVPs for TS 29.273	8.5.0
				4		
2009-03	CT#43	CP-090024			Error code allocation for authentication failure	8.5.0
2009-06	CT#44	CP-090299		4	Update of the AVP Codes	8.6.0
		CP-090299			AVP code reservation for TS 32.299	
		CP-090299			Diameter Command Codes for S6a/S6d/S13/S13'	
			0146		Removal of Requesting Node Type from AIR	
		CP-090299	0147		S6b Application ID	
2009-09	CT#45	CP-090530	0149		Allocation of Experimental-Result-Codes for S9 protocol	8.7.0
		CP-090530	0152		AVP code allocation for TS 29.212	
		CP-090531	0150		Update of the AVP type for the User-Id	
		CP-090531			Trace Depth per session	
2009-09	CT#45	CP-090557			AVP code range for charging	9.0.0
2009-12	CT#46	CP-090800		1	ICS-Flag	9.1.0
2000 12	011110	CP-091032			From GMLC-Address to GMLC-Number	- 0.1.0
		01 001002	0160		Session-Priority AVP	
			0163		Introduction of SLh application related AVPs and Experimental Result codes	1
			0166	_	Missing AVP error codes	+
		CP-090797		1	Introduction of SLg application related AVPs and Application Identifier	+
2010-03	CT#47	CP-090797	0158		Wildcarded Public Identity	9.2.0
2010-03	01#41	CP-100031			Correction on AVP code allocation reservation for TS 32.299 in Rel-9	9.2.0
		CP-100034 CP-100046			AVP code allocation for 29.172	+
		CP-100046		1	GPL_U support in TS 29.109	
		CP-100036	_		Error codes in 29.172 for SLg	
				1		
		CP-100048		1	AVPs in 29.272 for TADS support	
		CP-100040		4	Error codes in 29.272 for Unknown MME	
		CP-100236		4	EPS Subcsriber State and Location Information Request	
		CP-100033			One time notification AVP allocation	
		CP-100046			Addition of the LCS-QoS-Class attribute value	
0040.00	OT#40	CP-100175		4	Introduction of the LCS-Capabilities-Sets AVP in SLh interface	0.0.0
2010-06	CT#48	CP-100263		1	AVP Codes for PCC	9.3.0
		OD 400007	0183		EPS state and location retrieval	
		CP-100287		4	SGmb Application ID	
2040.00	CT#40	CP-100277			New APVs in S6a protocol	0.4.0
2010-09	CT#49	CP-100463		1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces	9.4.0
0040.00	OT#40	CP-100464			AVP Codes Allocation for PCC	40.00
2010-09	CT#49	CP-100465			SIPTO Permission Indicator	10.0.0
		CP-100466			Location data including only serving node address	
0040 40	OT#50	CP-100466			AVP for Update-Eff feature	40.4.0
2010-12	C1#50	CP-100699			Enhanced SRVCC Subscriber Data	10.1.0
		CP-100687			Allocate codes for AVPs on eMPS	
		CP-100683			Allocate codes for AVPs on LIPA	
		CP-100688			Periodic TAU/RAU timer in HSS subscription	4
		CP-100846		1	S6a Error Diagnostic	1
2011-03	CT#51	CP-110051			PDP-Address correction	10.2.0
		CP-110054			Essential correction on the value type of the ELP Application AVPs	
		CP-110087			Minimization of Drive Tests (MDT)	4
		CP-110088			Relay Node Indicator AVPs	
2011-06	CT#52	CP-110349			Handling of RTR for Emergency Registration	10.3.0
		CP-110347		1	Add AVPs from QSPEC cleanup	
		CP-110359	0226		MIPv4 security parameters on the STa and S6b interfaces	
		CP-110380	0216		MDT user consent	
		CP-110370			AVP Code Allocation for Pre-paging	
		CP-110375		1	PUR-Flags AVP	1
2011-09	CT#53	CP-110559			AVP code alignment with 29.212	10.4.0
		CP-110555			AVP code alignment with 32.299	1
		CP-110554			AVP code alignment with 29.214	
		CP-110552			Experimental Result Code Alignment with 29.061	1
		CP-110555			Failure code and AVP code alignment with 29.212	1
		CP-110722		2	Priviledged sender	7
2011-09	CT#53	CP-110584			Add vSRVCC updates to the Diameter AVP code table	11.0.0
	0.,,50	CP-110579		† ·	AVP code alignment with 32.299	1
		CP-110579		1	AVP code alignment with 32.299 AVP code reservation for 29.212	+
2011-12	CT#54	CP-110555		1	SWx Restoration AVPs	11.1.0
2011-12	C1#34			1		11.1.0
		CP-110812		1	Sy and Sd Application IDs New AVP codes for MBMS IP unicast encapsulation	4
				1	TINEW A VE COURS TO INIDING IF UNICAST RUCADSUIATION	1
		CP-110775				
		CP-110775 CP-110775 CP-110786	0265	1	New AVP codes for MBMS IP multicast encapsulation MME-Realm AVP code allocation	

		CP-110811			Equivalent PLMN CSG Subscription Request	
		CP-110781			Restoration of Wildcarded-IMPU AVP	
2012-03	CT#55	CP-120025		1	Codes Allocation for AVPs on Initial Attach	11.2.0
		CP-120038			New AVP codes for Absolute Time of MBMS Data Transfer over SGmb	
2012.06	CT#EC	CP-120038			Allocating Diameter AVP codes for TS 29.219 and TS 29.212 Codes Allocation for AVPs on NPLI	11 2 0
2012-06	CT#56	CP-120240 CP-120238			Adding new Diameter AVPs to Diameter table to support Trusted WLAN	11.3.0
		CP-120236	0294	'	Access feature	
		CP-120225	0296	1	Trust Relationship Indication	
		CP-120251			Corrections to reference titles	
		CP-120251			Diameter Code Allocation for TS 29.219	
		CP-120247			Network Name AVP codes	
		CP-120219			Duplicated AVP names	
2012-09	CT#57	CP-120481			PS additional number allocation	11.4.0
2012 00	01/101	CP-120473			SMS in MME/SGSN	
		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	0315	2	T4 device triggering via IMS	11.5.0
		CP-120731			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			Application Identifier, Command Codes and AVP codes for SGd, S6c	
		CP-120716			AVP name modification in TS 32.299	
		CP-120742			UE Time Zone AVP	
		CP-120741		1	Use of Flag instead of Enumerated AVPs	
		CP-120741		-	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
	07//00	CP-130030		-	Validity Time of Short Message	10.1.0
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 CP-130380			Definition of SS Status for Call Barring	
		CP-130360 CP-130291	0348		New SGs-MME-Identity AVP New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over	
		CF-130291	0346	2	Lgd interface	
		CP-130297	0347	1	Application Port Identifier	
		CP-130374			MTRR on Sh	
		CP-130295			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		1		-	Vendor-specific command code for Trigger-Establishment-Request/Answer	12.2.1
					corrected	
2013-12	CT#62	CP-130624	0369	-	New AVP for optimized LCS procedure for combined MME/SGSN	12.3.0
			0370	1	Adding E-SMLC provided Cell info and Cell Portion	
		CP-130800			New AVPs for SMS for IMS UE without MSISDN in TS 29.338	
		CP-130600		1	Allocation of Diameter codes for 32.299	
		CP-130605		-	Allocation of Diameter codes for 29.212	
				-	SGSN CAMEL Subscription Indication	
2014-03	CT#63	CP-140180			Protocol enhancements for the support of device replace procedure	12.4.0
		CP-140035			New AVP for the support of combined MME/SGSN	
	1	CP-140023			Definition of WLAN-related AVPs	
2014-06	CT#64	CP-140211	0385	_	Protocol enhancements to indicate support of device recall and replace by	12.5.0
					SMS-SC	
		CP-140251	0402	1	AVP allocation for Error handling, MTC error diagnostic	
		CP-140257	0391	1	SS-Status AVP Definition	
		CP-140252	0392	Ŀ	Definition of AVPs for Network Location in TWLAN	
		CP-140236		Ŀ	TWAN-BSSID AVP re-naming	
	1	CP-140247		-	New AVPs for Trusted WLAN access	
				1	Adding Codes for 29.214	
		CP-140231	0390			
2014-09	CT#65	CP-140231 CP-140515		1	T-GRUU restoration	12.6.0
2014-09	CT#65		0403		T-GRUU restoration MB2-C codes	12.6.0
2014-09	CT#65	CP-140515	0403 0404	1	MB2-C codes	12.6.0
2014-09	CT#65	CP-140515 CP-140517	0403 0404 0405	1		12.6.0

		CP-140513	0408	-	Identification of the HSS	1
2014-12	CT#66	CP-140785	0409	1	Editorial: WLAN-offloadability AVP codes added as in CR C4-141648. New AVP for MBMS restoration	12.7.0
2014-12	C1#66	CP-140765	0409	_	New Diagnostic-Info AVP for MBMS restoration	12.7.
			0410		WLCP key for WLCP signalling protection	
	İ		0411	-	Reset-ID	
	j		0416	1	Code definitions for 32.299	
	ļ		0428	-	Removal of I-WLAN AVPs	
			0429	1	Reference correction	
	ŀ		0433	-	Code allocation for 29.212	_
			0418 0422		MDT PLMN List Codes Allocation for PC2 Protocol	-
	·		0422		Codes Allocation for PC4a Protoco	
			0431		Allocation of values for Application ID, Command codes, AVP codes and	
			0.0.	ľ	Experimental-Result codes used in the TS 29.345	
			0434	1	Command Code and Error Code for ProSe Initial Location Information	
					Retrieval	
	ŀ		0425	-	Corrections of the type of some AVPs	_
			0426 0427	1	OFR-Flags AVP code P-CSCF Restoration mechanism new error	
2015-03	CT#67	CP-150015	-	<u> </u>	Renaming of Location-Type AVP	12.8.
2010 00	01#07	01 -130013	0437	1	Location reporting in emergency 1xSRVCC	12.0.
			0435		AVP codes for GCSE MB2-C	1
			0442	1	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	1	AVP codes allocation for Validity related AVPs for TS 29.345	1
2015-03	CT#67	CP-150039	0443	1	Allocation of codes for the Integrity Checks. Aspect AVPs Diameter Application Identifier for Np protocol	13.0.
2015-03 2015-06	CT#67	CP-150039		1	AVP code allocation for Match Refresh Timer AVP in TS 29.345	13.0.
2013-00	01#00	CP-150237		<u> </u>	Wrong CR implementation of CR 0416r1	13.1.
		CP-150249		1	AVP code allocation for 32.299	1
	·	CP-150263		1	AVP codes for Access Restriction Data per PLMN	
		CP-150372	0461	-	IP-SM-GW-Realm	
2015-09	CT#69	CP-150454		-	Subscription data for extended buffering at the SGW	13.2.
		CP-150442		ļ	Overlapping transaction over S6b	
	ŀ	CP-150453			Addition of IMSI Group Id AVP definition	1
	ŀ	CP-150449 CP-150431		1	Addition of CP parameter AVP definition AVP codes for TS 29.212	-
	ŀ	CP-150456		3	AVP definition for S6t	
2015-12	CT#70	CP-150761		-	Addition of MBMS-Cell-List AVP	13.3.
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		CP-150778			AVP codes for MONTE T6a/b interface	
		CP-150778		1	Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion data types	
		CP-150778	0494	2	Definition of AVP for deletion of all Monitoring events assigned to a subscriber (UE)	
		CP-150778		1	Definition of AVP SCEF-ID	1
		CP-150778			Service result per Event configuration	-
		CP-150770			Emergency PDN connection over untrusted WLAN access	1
		CP-150776	04/6	-	EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due to power saving	
		CP-150776	0497	1	Mobile Terminating SMS handling for extended Idle mode DRX	1
		CP-150776			Mobile Terminating SMS handling for extended Idle mode DRX – Additional Option	1
		CP-150777	0477	3	Commands and codes for Np protocol	1
		CP-150772			Definition of ProSe-Metadata-Index-Mask	1
		CP-150772	0489	-	Addition of AVPs and result-codes]
		CP-150772		-	Addition of AVP used in match report procedure for eProSe-Ext-CT	
		CP-150754		1	Allowed WAF and/or WWSF Identities	4
		CP-150773		1	Add the default access type to 3GPP specific AVP	1
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		CP-150755		-	New Group AVP for ProSe direct discovery procedures	1
		CP-150771		1	Definition of AVP for AESE-CT	1
		CP-150771		1	Command codes and AVP range for TS 29.154 and TS 29.153	1
		CP-150776		1	AVP codes for Indoor Positioning support in SLg/Lgd	
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	}	CP-160035		-	Specific AVP codes for NBIFOM	
		CP-160033		1	Alert procedure from MME/SGSN to SMS-GMSC for MT SMS to UE using	
		01 100030	0311		eDRX	
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History

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