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Modal verbs terminology

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

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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.

Diameter protocol; Stage 3".

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

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

[17]	3GPP TS 29.211, Release 6: "Rx Interface and Rx/Gx signalling flows".
[18]	3GPP TS 29.214: "Policy and Charging Control over Rx reference point".
[19]	3GPP TS 29.212: "Policy and Charging Control (PCC); Reference points".
[20]	3GPP TS 29.273: "Evolved Packet System (EPS); 3GPP EPS AAA interfaces".
[21]	3GPP TS 29.272: "Evolved Packet System (EPS); Mobility Management Entity (MME) and Serving GPRS Support Node (SGSN) related interfaces based on Diameter protocol".
[22]	3GPP TS 29.215: "Policy and Charging Control (PCC) over S9 reference point; Stage 3".
[23]	IETF RFC 5516: "Diameter Command Code Registration for Third Generation Partnership Project (3GPP) Evolved Packet System (EPS)".
[24]	3GPP TS 29.172: "Location Services (LCS); Evolved Packet Core (EPC) LCS Protocol (ELP) between the Gateway Mobile Location Centre (GMLC) and the Mobile Management Entity (MME); SLg interface".
[25]	3GPP TS 29.173: "Location Services (LCS); Diameter-based SLh interface for Control Plane LCS".
[26]	3GPP TS 29.219: "Policy and Charging Control: Spending Limit Reporting over Sy reference point".
[27]	3GPP TS 29.368: "Tsp interface protocol between the MTC Interworking Function (MTC-IWF) and Service Capability Server (SCS)".
[28]	3GPP TS 29.336: "Home Subscriber Server (HSS) diameter interfaces for interworking with packet data networks and applications".
[29]	3GPP TS 29.337: "Diameter-based T4 interface for communications with packet data networks and applications".
[30]	3GPP TS 29.338: "Diameter based protocols to support SMS capable MMEs".
[31]	3GPP TS 29.468: "Group Communication System Enablers for LTE (GCSE_LTE)".
[32]	3GPP TS 29.343: "Proximity-services (ProSe) function to ProSe application server aspects (PC2)".
[33]	3GPP TS 29.344: "Proximity-services (ProSe) Function to Home Subscriber Server (HSS) aspects".
[34]	3GPP TS 29.345: "Inter-Proximity-services (Prose) function signalling aspects; Stage 3".
[35]	3GPP TS 29.217: "Policy and Charging Control over Np reference point".
[36]	3GPP TS 29.128: "Diameter based T6a/T6b interface between the MME/SGSN and the SCEF".
[37]	3GPP TS 29.153: "Service exposure functionality between SCEF and RCAF reference point".
[38]	3GPP TS 29.154: "Service capability exposure functionality over Nt Reference point".
[39]	3GPP TS 29.283: "Diameter Data Management applications".
[40]	3GPP TS 29.388: "V2X Control Function to V2X Control Function to Home Subscriber Server (HSS) aspects (V4)".
[41]	3GPP TS 29.389: "Inter-V2X Control Function Signalling aspects (V6)".
[42]	3GPP TS 29.561: "Interworking between 5G Network and external Data Networks; Stage 3".

3 Definitions and abbreviations

3.1 Definitions

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

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

3.2 Abbreviations

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

AVP Attribute-Value-Pair CR Change Request

IANA Internet Assigned Numbers Authority
IETF Internet Engineering Task Force

LS Liaison Statement

4 Application identifiers

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

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

4.1 3GPP specific application identifiers

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

Table 4.1: 3GPP specific application identifiers

Application identifier	Application	3GPP TS
16777216	3GPP Cx/Px	29.228 [1] and 29.229 [2]
16777217	3GPP Sh/Ph	29.328 [3] and 29.329 [4]
16777218	3GPP Re	32.296 [14]
16777219	3GPP Wx	29.234 [6]
16777220	3GPP Zn	29.109 [7]
16777221	3GPP Zh	29.109 [7]
16777222	3GPP Gq	29.209 [8]
16777223	3GPP Gmb	29.061 [13]
16777224	3GPP Gx	29.210 [15]
16777225	3GPP Gx over Gy	29.210 [15]
16777226	3GPP MM10	29.140 [16]
16777229	3GPP Rx	29.211 [17]
16777230	3GPP Pr	29.234 [6]
16777236	3GPP Rx	29.214 [18]
16777238	3GPP Gx	29.212 [19]
16777250	3GPP STa	29.273 [20]
16777251	3GPP S6a	29.272 [21]
16777252	3GPP S13/S13'	29.272 [21]
16777255	3GPP SLg	29.172 [24]
16777264	3GPP SWm	29.273 [20]
16777265	3GPP SWx	29.273 [20]
16777266	3GPP Gxx	29.212 [19]
16777267	3GPP S9	29.215 [22]
16777268	3GPP Zpn	29.109 [7]
16777272	3GPP S6b	29.273 [20]
16777291	3GPP SLh	29.173 [25]
16777292	3GPP SGmb	29.061 [13]
16777302	3GPP Sy	29.219 [26]
16777303	3GPP Sd	29.212 [19]
16777308	3GPP S7a	29.272 [21]
16777309	3GPP Tsp	29.368 [27]
16777310	3GPP S6m	29.336 [28]
16777311	3GPP T4	29.337 [29]
16777311	3GPP S6c	29.338 [30]
16777313	3GPP SGd	29.338 [30]
16777318	3GPP S15	29.212 [19]
16777319	3GPP S9a	29.212 [19]
16777319	3GPP S9a*	29.215 [22]
	3GPP MB2-C	29.468 [31]
16777335		
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]
40777055	Management	00.000.1403
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	00 470 [04]
8388621	Location-Report-Request/Answer	LRR/LRA	29.172 [24]
8388622	LCS-Routing-Info-Request/Answer	RIR/RIA	29.173 [25]
8388635	Spending-Limit-Request/Answer	SLR/SLA	
8388636	Spending-Status-Notification-	SNR/SNA	29.219 [26]
	Request/Answer		
8388637	TDF-Session-Request/Answer	TSR/TSA	00 040 [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	00 000 [07]
8388640	Device-Notification-Request/Answer	DNR/DNA	29.368 [27]
8388641	Subscriber-Information-Request/Answer	SIR/SIA	29.336 [28]
8388718	Configuration-Information-	CIR/CIA	• •
	Request/Answer		00 000 1001
8388719	Reporting-Information-Request/Answer	RIR/RIA	29.336 [28]
8388726	NIDD-Information-Request/Answer	NIR/NIA	
8388643	Device-Trigger-Request/Answer	DTR/DTA	00 007 [00]
8388644	Delivery-Report-Request/Answer	DRR/DRA	29.337 [29]
8388645	MO-Forward-Short-Message	OFR/OFA	
00000.0	Request/Answer	0.140.7.	
8388646	MT-Forward-Short-Message	TFR/TFA	
00000.0	Request/Answer		
8388647	Send-Routing-Info-for-SM-	SRR/SRA	29.338 [30]
0000017	Request/Answer		20.000 [00]
8388648	Alert-Service-Centre-Request/Answer	ALR/ALA	
8388649	Report-SM-Delivery-Status-	RDR/RDA	
0000010	Request/Answer	1101011071	
8388656	Trigger-Establishment-Request/Answer	TER/TEA	29.215 [30]
8388662	GCS-Action-Request/Answer	GAR/GAA	i
8388663	GCS-Notification-Request/Answer	GNR/GNA	29.468 [31]
8388664	ProSe-Subscriber-Information-	PIR/PIA	
	Request/Answer		
8388665	Update-ProSe-Subscriber-Data-	UPR/UPA	
	Request/Answer		29.344 [33]
8388666	ProSe-Notify-Request/Answer	PNR/PNA	
8388713	ProSe-Initial-Location-Information-	PSR/PSA	
	Request/Answer		
8388668	ProSe-Authorization-Request/Answer	PAR/PAA	
8388669	ProSe-Discovery-Request/Answer	PDR/PDA	
8388670	ProSe-Match-Request/Answer	PMR/PMA	
8388671	ProSe-Match-Report-Info-Request/Answer	PIR/PIA	000451041
8388672	ProSe-Proximity-Request/Answer	PRR/PRA	29.345 [34]
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	29.343 [32]
8388720	Non-Aggregated-RUCI-Report-	NRR/NRA	
0000720	Request/Answer		
8388721	Aggregated-RUCI-Report-	ARR/ARA	29.217 [35]
0000721	Request/Answer	7 11 11 97 11 0 1	20.217 [00]
8388722	Modify-Uecontext-Request/Answer	MUR/MUA	-
8388724	Network-Status-Request/Answer	NSR/NSA	
8388725	Network-Status-Continuous-Report-	NCR/NCA	29.153 [37]
0000720	Request/Answer	1401014071	20.100 [07]
8388723	Background-Data-Transfer-	BTR/BTA	
0000720	Request/Answer	20517.	29.154 [38]
8388728	Data-Pull-Request/Answer	DPR/DPA	
8388729	Data-Update-Request/Answer	DUR/DUA	29.283 [39]
8388730	Notification-Data-Request/Answer	NDR/NDA	_000 [00]
8388732	Connection-Management-Request/Answer	CMR/CMA	
8388733	MO-Data-Request/Answer	ODR/ODA	29.128 [36]
8388734	MT-Data-Request/Answer	TDR/TDA	20.120 [00]
0000734	wit bata-Nequest/Allswell	IDIVIDA	ı

8388735	Event-Configuration-Request/Answer	ECR/ECA	29.154 [38]
8388736	Event-Reporting-Request/Answer	ERR/ERA	29.134 [30]

6 Vendor identifier

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

6.1 3GPP's vendor identifier

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

7 Attribute-Value-Pair codes

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

7.1 3GPP specific AVP codes

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

Table 7.1: 3GPP specific AVP codes

AVP Code	Attribute Name	Data Type	Specifie d in the 3GPP TS
100	3GPP-WLAN-APN-Id	OctetString	29.234
101	3GPP-WLAN-QoS-Filter-Rule	UTF8String	[6]
102	3GPP-WLAN-QoS-Filter-Support	OctetString	
	he AVP codes from 1 to 255 are reserved for backwards compati		ecific
	es (See 3GPP TS 29.061 [13], 3GPP TS 29.561 [42] and 3GPP T	ΓS 29.234 [6])	
	he AVP codes from 256 to 299 are reserved for future use.		
	Authentication-Method	Enumerated	
301	Authentication-Information-SIM	OctetString	
302	Authorization -Information-SIM	OctetString	
303	WLAN-User-Data	Grouped	
304	Charging-Data	Grouped	
305	WLAN-Access	Enumerated	
306	WLAN- 3GPP-IP-Access	Enumerated	
307	APN-Authorized	Grouped	
308	APN-Id		
	APN-Barring-Type	Enumerated	29.234
310	WLAN-Direct-IP-Access	Enumerated	[6]
311	Session-Request-Type	Enumerated	
312	Routing-Policy	IPFilterRule	
313	Max-Requested-Bandwidth	OctetString	
314	Charging-Characteristics	Integer	
315	Charging-Nodes	Grouped	
316	Primary-OCS-Charging-Function-Name	DiameterIdentity	
317	Secondary-OCS-Charging-Function-Name	DiameterIdentity	
318	3GPP-AAA-Server-Name	DiameterIdentity	
	Maximum-Number-Accesses	Unsigned32	
	The AVP codes from 320 to 399 are reserved for TS 29.234 The 3GPP-AAA-Server-Name definition is moved to TS 29.273 s	starting from Pol 12	
	GBA-UserSecSettings	OctetString	1
401	Transaction-Identifier	OctetString	
402	NAF-Hostname	OctetString	
403	GAA-Service-Identifier	OctetString	
404	Key-ExpiryTime	Time	
405	ME-Key-Material	OctetString	
406 407	UICC-Key-Material GBA U-Awareness-Indicator	OctetString Enumerated	
408	BootstrapInfoCreationTime	Time	
409	GUSS-Timestamp	Time	00.400
	GBA-Type	Enumerated	29.109
411	UE-Id T	OctetString	[7]
412	UE-Id-Type	Enumerated	
413	UICC-App-Label	OctetString	
414 415	UICC-MÉ Requested-Key-Lifetime	Enumerated Time	
416	Private-Identity-Request	Enumerated	
417	GBA-Push-Info	OctetString	
418	NAF-SA-Identifier	OctetString	
419	Security-Feature-Request	OctetString	
420	Security-Feature-Response	OctetString	
	he AVP codes from 421 to 499 are reserved for TS 29.109		T
500	Abort-Cause	Enumerated	
501	Access-Network-Charging-Address	Address	
502	Access-Network-Charging-Identifier	Grouped	
503	Access-Network-Charging-Identifier-Value	OctetString	
504	AF-Application-Identifier	OctetString	29.209
505	AF-Charging-Identifier	OctetString	[8],
506	Authorization-Token	OctetString	29.211
507	Flow-Description	IPFilterRule	[17],
508	Flow-Grouping	Grouped	29.214
509	Flow-Number	Unsigned32	[18]
510	Flows	Grouped	
511	Flow-Status	Enumerated	
512	Flow-Usage	Enumerated	
513	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
520	Media-Type	Enumerated
521	RR-Bandwidth	Unsigned32
522	RS-Bandwidth	Unsigned32
523	SIP-Forking-Indication	Enumerated
524	Codec-Data	OctetString
525	Service-URN	OctetString
526	Acceptable-Service-Info	Grouped
527	Service-Info-Status	Enumerated
528	MPS-Identifier	OctetString
529	AF-Signalling-Protocol	Enumerated
530	Sponsored-Connectivity-Data	Grouped
531	Sponsor-Identity	OctetString
532	Application-Service-Provider-Identity	OctetString
533	Rx-Request-Type	Enumerated
534	Min-Requested-Bandwidth-DL	Unsigned32
535	Min-Requested-Bandwidth-UL	Unsigned32
536	Required-Access-Info	Enumerated
537	IP-Domain-Id	OctetString
538	GCS-Identifier	OctetString
539	Sharing-Key-DL	Unsigned32
540	Sharing-Key-DL Sharing-Key-UL	Unsigned32
541	Retry-Interval	Unsigned32
542	Sponsoring-Action	Enumerated
543	Max-Supported-Bandwidth-DL	Unsigned32
544	Max-Supported-Bandwidth-UL	Unsigned32
545	Min-Desired-Bandwidth-DL	Unsigned32
546	Min-Desired-Bandwidth-UL	Unsigned32
547	MCPTT-Identifier	OctetString
548	Service-Authorization-Info	Unsigned32
549	Media-Component-Status	Unsigned32
550	Priority-Sharing-Indicator	Enumerated
551	AF-Requested-Data	Unsigned32
552	Content-Version	Unsigned64
553	Pre-emption-Control-Info	Unsigned32
554	Extended-Max-Requested-BW-DL	Unsigned32
555	Extended-Max-Requested-BW-UL	Unsigned32
556	Extended-Max-Supported-BW-DL	Unsigned32
557	Extended-Max-Supported-BW-UL	Unsigned32
558	Extended-Min-Desired-BW-DL	Unsigned32
559	Extended-Min-Desired-BW-UL	Unsigned32
560	Extended-Min-Requested-BW-DL	Unsigned32
561	Extended-Min-Requested-BW-UL	Unsigned32
562	MCVideo-Identifier	OctetString
563	IMS-Content-Identifier	OctetString
564	IMS-Content-Type	Enumerated
565	Callee-Information	Grouped
566	FLUS-Identifier	OctetString
567	Desired-Max-Latency	Float32
568	Desired-Max-Laterity Desired-Max-Loss	Float32
569	NID	OctetString
570	MA-Information	Grouped
571	MA-Information-Action	Unsigned32
572	5GS-RAN-NAS-Release-Cause	Grouped
573		Unsigned32
	5GMM-Cause	
574	5GSM-Cause	Unsigned32
575	NGAP-Cause	Grouped
576	NGAP-Group	Unsigned32
577 578	NGAP-Value Wireline-User-Location-Info	Unsigned32 Grouped

	lueo N. J. J. 197	0.1.101.1	
579	HFC-Node-Identifier	OctetString	
580	GLI-Identifier	OctetString	-
581	Line-Type he AVP codes from 582 to 599 are reserved for TS 29.209, TS 29	Unsigned32	
600	Visited-Network-Identifier	OctetString	1
601	Public-Identity	UTF8String	
602	Server-Name	UTF8String	
603	Server-Capabilities	Grouped	1
604	Mandatory-Capability	Unsigned32	
605	Optional-Capability	Unsigned32	-
606	User-Data	OctetString	
607	SIP-Number-Auth-Items	Unsigned32	1
608	SIP-Authentication-Scheme	UTF8String	
609	SIP-Authenticate	OctetString	
610	SIP-Authorization	OctetString	
611	SIP-Authentication-Context	OctetString	
612	SIP-Auth-Data-Item	Grouped	
613	SIP-Item-Number	Unsigned32	1
614	Server-Assignment-Type	Enumerated	1
615	Deregistration-Reason	Grouped	1
616	Reason-Code	Enumerated	1
617	Reason-Info	UTF8String	-
618 619	Charging-Information	Grouped DiameterURI	
620	Primary-Event-Charging-Function-Name Secondary-Event-Charging-Function-Name		
621	Primary-Charging-Collection-Function-Name	DiameterURI DiameterURI	
622	Secondary-Charging-Collection-Function-Name	DiameterURI	1
623	User-Authorization-Type	Enumerated	
624	User-Data-Already-Available	Enumerated	1
625	Confidentiality-Key	OctetString	1
626	Integrity-Key	OctetString	1
627	User-Data-Request-Type	Enumerated	
628	Supported-Features	Grouped	
629	Feature-List-ID	Unsigned32	00.000
630	Feature-List	Unsigned32	29.229
631	Supported-Applications	Grouped	[2]
632	Associated-Identities	Grouped	
633	Originating-Request	Enumerated	
634	Wildcarded-Public-Identity	UTF8String	
635	SIP-Digest-Authenticate	Grouped	
	Wildcarded-IMPU	UTF8String	
637	UAR-Flags	Unsigned32	
638	Loose-Route-Indication	Enumerated	
639	SCSCF-Restoration-Info	Grouped	-
640 641	Path	OctetString	-
642	Contact Subscription-Info	OctetString Grouped	-
643	Call-ID-SIP-Header	OctetString	1
644	From-SIP-Header	OctetString	1
645	To-SIP-Header	OctetString	1
646	Record-Route	OctetString	†
647	Associated-Registered-Identities	Grouped	†
648	Multiple-Registration-Indication	Enumerated	1
649	Restoration-Info	Grouped	1
650	Session-Priority	Enumerated	1
651	Identity-with-Emergency-Registration	Grouped	1
652	Priviledged-Sender-Indication	Enumerated	1
653	LIA-Flags	Unsigned32]
654	Initial-CSeq-Sequence-Number	Unsigned32]
655	SAR-Flags	Unsigned32]
656	Allowed-WAF-WWSF-Identities	Grouped]
657	WebRTC-Authentication-Function-Name	UTF8String]
658	WebRTC-Web-Server-Function-Name	UTF8String	1
659	RTR-Flags	Unsigned32	1
660	P-CSCF-Subscription-Info	Grouped	

Note: The AVP codes from 662 to 699 are reserved for TS 29.229.	661	Registration-Time-Out	Time	
			1 11110	
Total			Grouped	
Total				=
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				1
Enumerated Formation			<u> </u>	=
Time				+
				-
1712 DSAI-Tag				
1712 One-Time-Notification			1 1111	29.329
Tria Requested Nodes				[4]
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T15				_
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779 UDR-Flags Unsigned32 720 Call-Reference-Info Grouped 721 Call-Reference-Number OctetString 722 AS-Number OctetString Note: The AVP codes from 723 to799 are reserved for TS 29.329. Incomparity Note: The AVP codes from 800 to 822 are reserved for TS 32.299. Grouped 823 Event-Type Grouped 824 SIP-Method UTF8String 825 Event UTF8String 826 Content-Tuppe UTF8String 827 Content-Length Unsigned32 828 Content-Disposition UTF8String 829 Role-of-Node Enumerated 830 User-Session-Id UTF8String 831 Calling-Party-Address UTF8String 832 Called-Party-Address UTF8String 833 Time-Stamps Grouped 834 SIP-Request-Timestamp Time 835 SIP-Response-Timestamp Time 836 Application-Server UTF8String				
T20			=11011101010	4
T21				4
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Note: The AVP codes from 800 to 822 are reserved for TS 32.299. 823 Event			OctetString	
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837 Application-provided-called-party-address UTF8String 838 Inter-Operator-Identifier Grouped 839 Originating-IOI UTF8String 840 Terminating-IOI UTF8String 841 IMS-Charging-Identifier UTF8String 842 SDP-Session-Description UTF8String 843 SDP-Media-Component Grouped 844 SDP-Media-Name UTF8String 845 SDP-Media-Description UTF8String 846 CG-Address Address 847 GGSN-Address Address 848 Served-Party-IP-Address Address 849 Authorized-QoS UTF8String 850 Application-Server-Information Grouped 851 Trunk-Group-Id Grouped 852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party 858 PoC-Controlling-Address	835	SIP-Response-Timestamp	Time	
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845SDP-Media-DescriptionUTF8String846CG-AddressAddress847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String			LITERString	1
846CG-AddressAddress847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String				1
847GGSN-AddressAddress848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String				1
848Served-Party-IP-AddressAddress849Authorized-QoSUTF8String850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String				1
849 Authorized-QoS UTF8String 850 Application-Server-Information Grouped 851 Trunk-Group-Id Grouped 852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String				+
850Application-Server-InformationGrouped851Trunk-Group-IdGrouped852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String				-
851 Trunk-Group-Id Grouped 852 Incoming-Trunk-Group-Id UTF8String 853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String				-
852Incoming-Trunk-Group-IdUTF8String853Outgoing-Trunk-Group-IdUTF8String854Bearer-ServiceOctetString855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String				-
853 Outgoing-Trunk-Group-Id UTF8String 854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String				-
854 Bearer-Service OctetString 855 Service-Id UTF8String 856 Associated-URI UTF8String 857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String				4
855Service-IdUTF8String856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String				4
856Associated-URIUTF8String857Charged-PartyUTF8String858PoC-Controlling-AddressUTF8String				4
857 Charged-Party UTF8String 858 PoC-Controlling-Address UTF8String				4
858 PoC-Controlling-Address UTF8String				4
				_
859 PoC-Group-Name				
	859	PoC-Group-Name	UTF8String	
860 Cause Grouped	860	Cause	Grouped	<u> </u>

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861	Cause-Code	Integer32	
862	Node-Functionality	Enumerated	
863	Service-Specific-Data	UTF8String	
864	Originator	Enumerated	
865	PS-Furnish-Charging-Information	Grouped	
866	PS-Free-Format-Data	OctetString	
867	PS-Append-Free-Format-Data	Enumerated	
868	Time-Quota-Threshold	Unsigned32	
869	Volume-Quota-Threshold	Unsigned32	
870	Trigger-Type	Enumerated	
871	Quota-Holding-Time	Unsigned32	
872	Reporting-Reason	Enumerated	
873	Service-Information	Grouped	
874	PS-Information	Grouped	
875	Reserved	-	
876	IMS-Information	Grouped	
877	MMS-Information	Grouped	
878	LCS-Information	Grouped	
879	PoC-Information	Grouped	
880	MBMS-Information	Grouped	
881	Quota-Consumption-Time	Unsigned32	
882	Media-Initiator-Flag	Enumerated	
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	20.064
912	MBMS-Session-Identity-Repetition-Number	Unsigned32	29.061 [13]
913	MBMS-Required-QoS	UTF8String	[IO]
914	MBMS-Counting-Information	Enumerated	
915	MBMS-User-Data-Mode-Indication	Enumerated	
916	MBMS-GGSN-Address	UTF8String	
917	MBMS-GGSN-IPv6-Address	UTF8String	
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	

926 MBMS-GW-SM-UPP-Port OctetString 927 MBMS-GW-UDP-Port OctetString 928 MBMS-GW-UDP-Port OctetString 929 MBMS-GW-UDP-Port-Indicator Enumerated 929 MBMS-Data-Transfer-Start Unsigned64 930 MBMS-Data-Transfer-Stop Unsigned32 931 MBMS-Flags Unsigned32 932 Restart-Counter Unsigned32 933 Rostart-Counter Unsigned32 933 MBMS-Flags Unsigned32 933 MBMS-Gell-List OctelString Note: The AVP codes from 935 to 999 are reserved for TS 29.061 Enumerated 1000 Bearer-Usage Enumerated 1001 Charging-Rule-Hance Grouped 1002 Charging-Rule-Hance Grouped 1003 Charging-Rule-Hance Grouped 1004 Charging-Rule-Hance UTFSBring 1005 Charcing-Rule-Hance Charging-Rule-Hance 1006 Event-Trigger Enumerated 1007 Metering				
	925		OctetString	
MBMS-GW-UDP-Port-Indicator	926	MBMS-BMSC-SSM-UDP-Port		
MBMS-Data-Transfer-Storp	927	MBMS-GW-UDP-Port	OctetString	
MBMS-Data-Transfer-Stop			Enumerated	
MBMS-Flags	929			
332 Diagnostic-Info	930			
331 MagNoSt-Cell-List	931			
MBMS-Cell-List	932	Restart-Counter		
Note: The AVP codes from 935 to 999 are reserved for TS 29.061				
			OctetString	
Charging-Rule-Install	Note: T	The AVP codes from 935 to 999 are reserved for TS 29.061		
1002 Charging-Rule-Definition Grouped	1000	Bearer-Usage	Enumerated 29.212 [19]	
1003	1001	Charging-Rule-Install	Grouped	
1005	1002	Charging-Rule-Remove	Grouped	
1005	1003	Charging-Rule-Definition	Grouped	
	1004	Charging-Rule-Base-Name	UTF8String	
1007 Metering-Method	1005	Charging-Rule-Name	OctetString	
Documentaries	1006	Event-Trigger	Enumerated	
Document Enumerated	1007	Metering-Method	Enumerated	
1010 Precedence	1008	Offline	Enumerated	
1011 Reporting-Level	1009	Online		
1011 Reporting-Level		Precedence		
1012 TFT-Filter		Reporting-Level		
1014 ToS-Traffic-Class	1012	TFT-Filter	IPFilterRule	
1018	1013	TFT-Packet-Filter-Information	Grouped	
1018	1014	ToS-Traffic-Class		
1018	1016	QoS-Information		
Dec			· · · · · · · · · · · · · · · · · · ·	
1020 Bearer-Identifier			-	
Description				
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 1038 Tunnel-Information Grouped 1039 CoA-Information Grouped 1040 APN-Aggregate-Max-Bitrate-DL Unsigned32 1041 APN-Aggregate-Max-Bitrate-UL Unsigned32 1042 Revalidation-Time Time 1044 Rule-DeActivation-Time Time 1045 Session-Release-Cause Enumerated 1046 Priority-Level Unsigned32 1047 Pre-emption-Capability Enumerated 1048 Pre-emption-Capability Enumerated 1049 Default-EPS-Bearer-QoS Grouped 1051 QoS-Rule-Install Grouped 1052 QoS-Rule-Name OctelString 1054 QoS-Rule-Definition Grouped 1054 QoS-Rule-Definition Grouped 1055 QoS-Rule-Definition Grouped 1056 QoS-Rule-Definition Grouped 1057 QoS-Rule-Definition Grouped 1058 QoS-Rule-Definition Grouped 1059 QoS-Rule-Definition Grouped 1050 QoS-Rule-Definition Grouped 1051 QoS-Rule-Definition Grouped 1052 QoS-Rule-Definition Grouped 1054 QoS-Rule-Definition Grouped 1055 QoS-Rule-Definition Grouped 1056 QoS-Rule-Definition Grouped 1057 QoS-Rule-Name OctelString				
Bearer-Control-Mode			_ _	
Network-Request-Support				
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 1038 Tunnel-Information Grouped 1039 CoA-Information Grouped 1040 APN-Aggregate-Max-Bitrate-DL Unsigned32 1041 APN-Aggregate-Max-Bitrate-DL Unsigned32 1042 Revalidation-Time Time 1043 Rule-Activation-Time Time 1044 Rule-DeActivation-Time Time 1045 Session-Release-Cause Enumerated 1046 Priority-Level Unsigned32 1047 Pre-emption-Capability Enumerated 1048 Pre-emption-Capability Enumerated 1049 Default-EPS-Bearer-QoS Grouped 1050 AN-GW-Address Address 1051 QoS-Rule-Pernove Grouped 1053 QoS-Rule-Definition Grouped 1054 QoS-Rule-Definition Grouped 1055 QoS-Rule-Definition Grouped 1056 QoS-Rule-Definition Grouped 1057 QoS-Rule-Definition Grouped 1058 QoS-Rule-Definition Grouped 1059 QoS-Rule-Definition Grouped 1050 QoS-Rule-Definition Grouped 1050 QoS-Rule-Definition Grouped 1051 QoS-Rule-Definition Grouped 1052 QoS-Rule-Definition Grouped 1054 QoS-Rule-Name OctetString				
1026 Guaranteed-Bitrate-UL				
1027 IP-CAN-Type				
1028 QoS-Class-Identifier Enumerated 1029 QoS-Negotiation Enumerated 1030 QoS-Uggrade Enumerated 1031 Rule-Failure-Code Enumerated 1032 RAT-Type Enumerated 1033 Event-Report-Indication Grouped 1034 Allocation-Retention-Priority Grouped 1035 CoA-IP-Address Address 1036 Tunnel-Header-Filter IPFilterRule 1037 Tunnel-Header-Length Unsigned32 1038 Tunnel-Information Grouped 1039 CoA-Information Grouped 1040 APN-Aggregate-Max-Bitrate-DL Unsigned32 1041 APN-Aggregate-Max-Bitrate-UL Unsigned32 1042 Revalidation-Time Time 1043 Rule-Activation-Time Time 1044 Rule-DeActivation-Time Time 1045 Session-Release-Cause Enumerated 1046 Priority-Level Unsigned32 1047 Pre-emption-Capability Enumerated 1048 Pre-emption-Capability Enumerated 1049 Default-EPS-Bearer-QoS Grouped 1050 AN-GW-Address Address 1051 QoS-Rule-Install Grouped 1052 QoS-Rule-Definition Grouped 1053 QoS-Rule-Definition Grouped 1054 QoS-Rule-Name OctetString				
1029 QoS-Negotiation Enumerated 1030 QoS-Upgrade Enumerated 1031 Rule-Failure-Code Enumerated 1032 RAT-Type Enumerated 1033 Event-Report-Indication Grouped 1034 Allocation-Retention-Priority Grouped 1035 CoA-IP-Address Address 1036 Tunnel-Header-Filter IPFilterRule 1037 Tunnel-Header-Length Unsigned32 1038 Tunnel-Information Grouped 1039 CoA-Information Grouped 1040 APN-Aggregate-Max-Bitrate-DL Unsigned32 1041 APN-Aggregate-Max-Bitrate-UL Unsigned32 1042 Revalidation-Time Time 1043 Rule-Activation-Time Time 1044 Rule-DeActivation-Time Time 1045 Session-Release-Cause Enumerated 1046 Priority-Level Unsigned32 1047 Pre-emption-Capability Enumerated 1048 Pre-emption-Capab				
1030 QoS-Upgrade Enumerated 1031 Rule-Failure-Code Enumerated 1032 RAT-Type Enumerated 1033 Event-Report-Indication Grouped 1034 Allocation-Retention-Priority Grouped 1035 CoA-IP-Address Address 1036 Tunnel-Header-Filter IPFilterRule 1037 Tunnel-Header-Length Unsigned32 1038 Tunnel-Information Grouped 1039 CoA-Information Grouped 1040 APN-Aggregate-Max-Bitrate-DL Unsigned32 1041 APN-Aggregate-Max-Bitrate-UL Unsigned32 1042 Revalidation-Time Time 1043 Rule-Activation-Time Time 1044 Rule-DeActivation-Time Time 1045 Session-Release-Cause Enumerated 1046 Priority-Level Unsigned32 1047 Pre-emption-Capability Enumerated 1048 Pre-emption-Vulnerability Enumerated 1049 Default-EPS-Bearer-QoS Grouped 1050 AN-GW-Address </td <td></td> <td></td> <td></td> <td></td>				
1031 Rule-Failure-Code Enumerated 1032 RAT-Type Enumerated 1033 Event-Report-Indication Grouped 1034 Allocation-Retention-Priority Grouped 1035 CoA-IP-Address Address 1036 Tunnel-Header-Filter IPFilterRule 1037 Tunnel-Header-Length Unsigned32 1038 Tunnel-Information Grouped 1039 CoA-Information Grouped 1030 CoA-Information Grouped 1040 APN-Aggregate-Max-Bitrate-DL Unsigned32 1041 APN-Aggregate-Max-Bitrate-UL Unsigned32 1042 Revalidation-Time Time 1043 Rule-Activation-Time Time 1044 Rule-DeActivation-Time Time 1045 Session-Release-Cause Enumerated 1046 Priority-Level Unsigned32 1047 Pre-emption-Capability Enumerated 1048 Pre-emption-Vulnerability Enumerated 1049 Default-EPS-Bearer-QoS Grouped 1050 AN-GW-Address Address 1051 QoS-Rule-Install Grouped 1052 QoS-Rule-Remove Grouped 1053 QoS-Rule-Definition Grouped 1054 QoS-Rule-Name OctetString			<u> </u>	
1032 RAT-Type Enumerated 1033 Event-Report-Indication Grouped 1034 Allocation-Retention-Priority Grouped 1035 CoA-IP-Address Address 1036 Tunnel-Header-Filter IPFilterRule 1037 Tunnel-Header-Length Unsigned32 1038 Tunnel-Information Grouped 1039 CoA-Information Grouped 1040 APN-Aggregate-Max-Bitrate-DL Unsigned32 1041 APN-Aggregate-Max-Bitrate-UL Unsigned32 1042 Revalidation-Time Time 1043 Rule-Activation-Time Time 1044 Rule-DeActivation-Time Time 1045 Session-Release-Cause Enumerated 1046 Priority-Level Unsigned32 1047 Pre-emption-Capability Enumerated 1048 Pre-emption-Vulnerability Enumerated 1049 Default-EPS-Bearer-QoS Grouped 1050 AN-GW-Address Address 1051 QoS-Rule-Install Grouped 1052 QoS-Rule-Remove Grouped 1053 QoS-Rule-Definition Grouped 1054 QoS-Rule-Name OctetString				
1033Event-Report-IndicationGrouped1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated1046Priority-LevelUnsigned321047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-DefinitionGrouped1055QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1034Allocation-Retention-PriorityGrouped1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated1046Priority-LevelUnsigned321047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1035CoA-IP-AddressAddress1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated1046Priority-LevelUnsigned321047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-RemoveGrouped1054QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1036Tunnel-Header-FilterIPFilterRule1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated1046Priority-LevelUnsigned321047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1037Tunnel-Header-LengthUnsigned321038Tunnel-InformationGrouped1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated1046Priority-LevelUnsigned321047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1038Tunnel-InformationGrouped1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated1046Priority-LevelUnsigned321047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1039CoA-InformationGrouped1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated1046Priority-LevelUnsigned321047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1040APN-Aggregate-Max-Bitrate-DLUnsigned321041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated1046Priority-LevelUnsigned321047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1041APN-Aggregate-Max-Bitrate-ULUnsigned321042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated1046Priority-LevelUnsigned321047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1042Revalidation-TimeTime1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated1046Priority-LevelUnsigned321047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1043Rule-Activation-TimeTime1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated1046Priority-LevelUnsigned321047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1044Rule-DeActivation-TimeTime1045Session-Release-CauseEnumerated1046Priority-LevelUnsigned321047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1045Session-Release-CauseEnumerated1046Priority-LevelUnsigned321047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1046Priority-LevelUnsigned321047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1047Pre-emption-CapabilityEnumerated1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1048Pre-emption-VulnerabilityEnumerated1049Default-EPS-Bearer-QoSGrouped1050AN-GW-AddressAddress1051QoS-Rule-InstallGrouped1052QoS-Rule-RemoveGrouped1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1049 Default-EPS-Bearer-QoS Grouped 1050 AN-GW-Address Address 1051 QoS-Rule-Install Grouped 1052 QoS-Rule-Remove Grouped 1053 QoS-Rule-Definition Grouped 1054 QoS-Rule-Name OctetString				
1050 AN-GW-Address Address 1051 QoS-Rule-Install Grouped 1052 QoS-Rule-Remove Grouped 1053 QoS-Rule-Definition Grouped 1054 QoS-Rule-Name OctetString				
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1053QoS-Rule-DefinitionGrouped1054QoS-Rule-NameOctetString				
1054 QoS-Rule-Name OctetString				
TUDD QUD-KUIE-KEPOTT Grouped				
	1055	иоэ-кине-кероп	Groupea	

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1056	Security-Parameter-Index	OctetString	
1057	Flow-Label	OctetString	-
1058	Flow-Information	Grouped	
1059	Packet-Filter-Content	IPFilterRule	
1060	Packet-Filter-Identifier	OctetString	
1061	Packet-Filter-Information	Grouped	
1062	Packet-Filter-Operation	Enumerated	
1063 1064	Resource-Allocation-Notification	Enumerated Enumerated	
1064	Session-Linking-Indicator PDN-Connection-ID	OctetString	
1065	Monitoring-Key	OctetString	
1067	Usage-Monitoring-Information	Grouped	
1067	Usage-Monitoring-Information Usage-Monitoring-Level	Enumerated	
1069	Usage-Monitoring-Report	Enumerated	
	Usage-Monitoring-Support	Enumerated	
1071	CSG-Information-Reporting	Enumerated	
	Packet-Filter-Usage	Enumerated	
1073	Charging-Correlation-Indicator	Enumerated	
1074	QoS-Rule-Base-Name	UTF8String	1
1075	Routing-Rule-Remove	Grouped	1
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	ļ
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	
1/101	TDF-IP-address	Address	
1091			}
1092	ADC-Rule-Install	Grouped	
1092 1093	ADC-Rule-Install ADC-Rule-Remove	Grouped Grouped	
1092 1093 1094	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition	Grouped Grouped Grouped	
1092 1093 1094 1095	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name	Grouped Grouped Grouped UTF8String	
1092 1093 1094 1095 1096	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name	Grouped Grouped Grouped UTF8String OctetString	
1092 1093 1094 1095 1096 1097	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Report	Grouped Grouped Grouped UTF8String OctetString Grouped	
1092 1093 1094 1095 1096 1097 1098	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Report Application-Detection-Information	Grouped Grouped Grouped UTF8String OctetString Grouped Grouped	
1092 1093 1094 1095 1096 1097 1098 1099	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity	Grouped Grouped Grouped UTF8String OctetString Grouped	
1092 1093 1094 1095 1096 1097 1098 1099 Note: T	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212	Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Enumerated	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity	Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Enumerated Groupe	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID	Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Enumerated Groupe	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID	Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Enumerated Groupe UTF8Str UTF8Str	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID	Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Enumerated Groupe	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event	Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Enumerated Groupe UTF8Str UTF8Str UTF8String Enumerated	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103 1104	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity The AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event Sender-Address	Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Enumerated Groupe UTF8Str UTF8Str UTF8String Enumerated UTF8String	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103 1104 1105	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity The AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event Sender-Address Initial-Recipient-Address	Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Enumerated Groupe UTF8Str UTF8Str UTF8String Enumerated UTF8String Grouped	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103 1104 1105 1106 1107	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity The AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event Sender-Address Initial-Recipient-Address Result-Recipient-Address	Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Enumerated Groupe UTF8Str UTF8Str UTF8String Enumerated UTF8String Grouped Grouped Grouped Grouped Grouped	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103 1104 1105 1106 1107 1108	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event Sender-Address Initial-Recipient-Address Result-Recipient-Address Sequence-Number Recipient-Address Routeing-Address	Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Enumerated Groupe UTF8Str UTF8Str UTF8String Enumerated UTF8String Grouped Grouped UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Base-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event Sender-Address Initial-Recipient-Address Result-Recipient-Address Sequence-Number Recipient-Address Routeing-Address Originating-Interface	Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Enumerated Groupe UTF8Str UTF8Str UTF8String Enumerated UTF8String Grouped Grouped UTF8String Grouped UTF8String Grouped Unsigned32 UTF8String UTF8String UTF8String	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Base-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event Sender-Address Initial-Recipient-Address Result-Recipient-Address Sequence-Number Recipient-Address Routeing-Address Originating-Interface Delivery-Report	Grouped Grouped Grouped UTF8String OctetString Grouped Grouped Enumerated Groupe UTF8Str UTF8Str UTF8String Enumerated UTF8String Grouped Grouped UTF8String Enumerated UTF8String Grouped Unsigned32 UTF8String UTF8String Enumerated Enumerated	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Base-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event Sender-Address Initial-Recipient-Address Result-Recipient-Address Sequence-Number Recipient-Address Routeing-Address Originating-Interface Delivery-Report Read-Reply	Grouped Grouped Grouped UTF8String OctetString Grouped Enumerated Groupe UTF8Str UTF8Str UTF8String Enumerated UTF8String Grouped Grouped UTF8String Enumerated UTF8String Enumerated UTF8String Grouped Grouped Unsigned32 UTF8String UTF8String Enumerated Enumerated Enumerated	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1111 1112	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Base-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event Sender-Address Initial-Recipient-Address Result-Recipient-Address Sequence-Number Recipient-Address Routeing-Address Originating-Interface Delivery-Report Read-Reply Sender-Visibility	Grouped Grouped Grouped UTF8String OctetString Grouped Enumerated Groupe UTF8Str UTF8Str UTF8String Enumerated UTF8String Grouped Grouped Unsigned32 UTF8String UTF8String UTF8String Enumerated UTF8String Enumerated Unsigned32 UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1111 1112	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Base-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event Sender-Address Initial-Recipient-Address Result-Recipient-Address Sequence-Number Recipient-Address Routeing-Address Originating-Interface Delivery-Report Read-Reply Sender-Visibility Service-Key	Grouped Grouped Grouped UTF8String OctetString Grouped Enumerated Groupe UTF8Str UTF8Str UTF8String Enumerated UTF8String Grouped Grouped Grouped Grouped Unsigned32 UTF8String UTF8String Enumerated Enumerated Enumerated	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event Sender-Address Initial-Recipient-Address Result-Recipient-Address Sequence-Number Recipient-Address Routeing-Address Originating-Interface Delivery-Report Read-Reply Sender-Visibility Service-Key Billing-Information	Grouped Grouped Grouped UTF8String OctetString Grouped Enumerated Groupe UTF8Str UTF8String Enumerated UTF8String Grouped Grouped UTF8String Enumerated UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated UTF8String	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event Sender-Address Initial-Recipient-Address Result-Recipient-Address Sequence-Number Recipient-Address Routeing-Address Originating-Interface Delivery-Report Read-Reply Sender-Visibility Service-Key Billing-Information Status	Grouped Grouped Grouped UTF8String OctetString Grouped Enumerated Groupe UTF8Str UTF8String Enumerated UTF8String Grouped Grouped Unsigned32 UTF8String UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated Grouped UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated UTF8String UTF8String	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Base-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event Sender-Address Initial-Recipient-Address Result-Recipient-Address Sequence-Number Recipient-Address Routeing-Address Originating-Interface Delivery-Report Read-Reply Sender-Visibility Service-Key Billing-Information Status Status-Code	Grouped Grouped Grouped UTF8String OctetString Grouped Enumerated Groupe UTF8Str UTF8String Enumerated UTF8String Grouped Grouped Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated UTF8String UTF8String Grouped UTF8String UTF8String	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Base-Name ADC-Rule-Base-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event Sender-Address Initial-Recipient-Address Result-Recipient-Address Sequence-Number Recipient-Address Originating-Interface Delivery-Report Read-Reply Sender-Visibility Service-Key Billing-Information Status Status-Code Status-Text	Grouped Grouped Grouped UTF8String OctetString Grouped Enumerated Groupe UTF8Str UTF8String Enumerated UTF8String Grouped Grouped Unsigned32 UTF8String UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated Enumerated Enumerated Grouped UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated UTF8String UTF8String	29.140 [16]
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 Note: T	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Definition ADC-Rule-Base-Name ADC-Rule-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity The AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event Sender-Address Initial-Recipient-Address Result-Recipient-Address Result-Recipient-Address Sequence-Number Recipient-Address Routeing-Address Originating-Interface Delivery-Report Read-Reply Sender-Visibility Service-Key Billing-Information Status Status-Code Status-Text The AVP codes from 1119 to 1199 are reserved for TS 29.140	Grouped Grouped Grouped UTF8String OctetString Grouped Enumerated Groupe UTF8Str UTF8String Enumerated UTF8String Grouped Grouped UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String	
1092 1093 1094 1095 1096 1097 1098 1099 Note: T 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 Note: T	ADC-Rule-Install ADC-Rule-Remove ADC-Rule-Base-Name ADC-Rule-Base-Name ADC-Rule-Report Application-Detection-Information PS-to-CS-Session-Continuity he AVP codes from 1083 to 1084 are reserved for TS 29.212 Served-User-Identity VASP-ID VAS-ID Trigger-Event Sender-Address Initial-Recipient-Address Result-Recipient-Address Sequence-Number Recipient-Address Originating-Interface Delivery-Report Read-Reply Sender-Visibility Service-Key Billing-Information Status Status-Code Status-Text	Grouped Grouped Grouped UTF8String OctetString Grouped Enumerated Groupe UTF8Str UTF8String Enumerated UTF8String Grouped Grouped Unsigned32 UTF8String Enumerated UTF8String UTF8String UTF8String UTF8String UTF8String UTF8String Enumerated Enumerated Enumerated Enumerated UTF8String UTF8String Grouped UTF8String UTF8String	29.140 [16]

_	_	,
1202	Submission-Time	Time
1203	MM-Content-Type	Grouped
1204	Type-Number	Enumerated
1205	Additional-Type-Information	UTF8String
1206	Content-Size	Unsigned32
1207	Additional-Content-Information	Grouped
1208	Addressee-Type	Enumerated
1209	Priority	Enumerated
1210	Message-ID	UTF8String
1211	Message-Type	Enumerated
1212	Message-Size	Unsigned32
1213	Message-Class	Grouped
1214	Class-Identifier	Enumerated
1215	Token-Text	UTF8String
1216	Delivery-Report-Requested	Enumerated
1217	Adaptations	Enumerated
1218	Applic-ID	UTF8String
1219	Aux-Applic-Info	UTF8String
1220	Content-Class	Enumerated
1221	DRM-Content	Enumerated
1222	Read-Reply-Report-Requested	Enumerated
1223	Reply-Applic-ID	UTF8String
1224	File-Repair-Supported MBMS-User-Service-Type	Enumerated
1225 1226	Unit-Quota-Threshold	Enumerated
1227	PDP-Address	Unsigned32
		Address
1228	SGSN-Address	Address
1229 1230	PoC-Session-Id Deferred-Location-Even-Type	UTF8String UTF8String
1231	LCS-APN	UTF8String
1232	LCS-Client-Id	Grouped
	LCS-Client-Dialed-By-MS	UTF8String
1234	LCS-Client-External-ID	UTF8String
	LCS-Client-Name	Grouped
	LCS-Data-Coding-Scheme	UTF8String
1237	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
1245	Positioning-Data	UTF8String
1246	Reserved	-
1247	PDP-Context-Type	Enumerated
1248	MMBox-Storage-Requested	Enumerated
1249	Service-Specific-Info	Grouped
1250	Called-Asserted-Identity	UTF8String
1251	Requested-Party-Address	UTF8String
1252	PoC-User-Role	Grouped
1253	PoC-User-Role-IDs	UTF8String
1254	PoC-User-Role-info-Units	Enumerated
1255	Talk-Burst-Exchange	Grouped
1256	Service-Generic-Information	Grouped
1257	Service-Specific-Type	Unsigned32
1258	Event-Charging-TimeStamp	Time
1259	Participant-Access-Priority	Enumerated
1260	Participant-Group	Grouped
1261	PoC-Change-Conditions	Enumerated
1262	PoC-Change-Time	Time
1263	Access-Network-Information	OctetString
1264	Trigger	Grouped
1265	Base-Time-Interval	Unsigned32
1266	Envelope	Grouped

	Envelope-End-Time	Time	
1268	Envelope-Reporting	Enumerated	
1269	Envelope-Start-Time	Time	
1270	Time-Quota-Mechanism	Grouped	
1271	Time-Quota-Type	Enumerated	
1272	Early-Media-Description	Grouped	
1273	SDP-TimeStamps	Grouped	
	SDP-Offer-Timestamp	Time	
	SDP-Answer-Timestamp	Time	
	AF-Correlation-Information	Grouped	
1277	PoC-Session-Initiation-type	Enumerated	
1278	Offline-Charging	Grouped	
	User-Participating-Type	Enumerated	
	Alternate-Charged-Party-Address	UTF8String	
1281	IMS-Communication-Service-Identifier	UTF8String	
1282	Number-Of-Received-Talk-Bursts	Unsigned32	
1283	Number-Of-Talk-Bursts	Unsigned32	
	Received-Talk-Burst-Time	Unsigned32	
	Received-Talk-Burst-Volume	Unsigned32	
	Talk-Burst-Time	Unsigned32	
	Talk-Burst-Volume	Unsigned32	
	Media-Initiator-Party	UTF8String	
	he AVP codes from 1289 to 1299 are reserved for TS 32.299	Ги., има в tl	
	PC5-Radio-Technology	Enumerated	
	RAN-End-Time	Time	
	RAN-Secondary-RAT-Usage-Report	Grouped	
	RAN-Start-Time	Time	
	Secondary-RAT-Type	OctetString	
	Civic-Address-Information	UTF8String	
	WLAN-Operator-Id	Grouped	
	WLAN-Operator-Name	UTF8String	
	WLAN-PLMN-Id	UTF8String	
	API-Content	UTF8String	
	API-Direction	Enumerated	
	API-Identifier	OctetString	32.299 [5]
	API-Invocation-Timestamp	Time	
	API-Result-Code	Unsigned32	
	API-Size API-Network-Service-Node	Unsigned64 Enumerated	
	Exposure-Function-API-Information		
	SCEF-Address	Grouped Address	
	TLTRI	Unsigned32	
	TTRI	Unsigned32	
	3GPP-OC-Specific-Reduction	Grouped	
	3GPP-OC-Specific-Reduction 3GPP-OC-Rating-Group	Unsigned32	
	3GPP-OC-Request-Type	Enumerated	
	VoLTE-Information	Grouped	
	he AVP codes from 1324 to 1399 are reserved for TS 32.229.	Groupeu	
	Subscription-Data	Grouped	29.272 [21]
1400	Terminal-Information	Grouped	20.212 [21]
1401	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	
1710	10210114 400101		

1417	Network-Access-Mode	Enumerated
1418	HPLMN-ODB	Enumerated
1419	Item-Number	Unsigned32
1420	Cancellation-Type	Enumerated
1421	DSR-Flags	Unsigned32
1422	DSA-Flags	Unsigned32
1423	Context-Identifier	Unsigned32
1424	Subscriber-Status	Enumerated
1425	Operator-Determined-Barring	Unsigned32
1426	Access-Restriction-Data	Unsigned32
1427	APN-OI-Replacement	UTF8String
1428	All-APN-Configurations-Included-Indicator	Enumerated
1429	APN-Configurations-included-indicator	Grouped
1430	APN-Configuration	Grouped
1431	EPS-Subscribed-QoS-Profile	Grouped
1432		
	VPLMN-Dynamic-Address-Allowed	Enumerated
1433	STN-SR	OctetString
1434	Alert-Reason	Enumerated
1435	AMBR	Grouped
1436	CSG-Subscription-Data	Grouped
1437	CSG-Id	Unsigned32
1438	PDN-GW-Allocation-Type	Enumerated
1439	Expiration-Date	Time
1440	RAT-Frequency-Selection-Priority-ID	Unsigned32
1441	IDA-Flags	Unsigned32
1442	PUA-Flags	Unsigned32
1443	NOR-Flags	Unsigned32
1444	User-Id	UTF8String
1445	Equipment-Status	Enumerated
1446	Regional-Subscription-Zone-Code	
		OctetString
1447	RAND	OctetString
1448	XRES	OctetString
1449	AUTN	OctetString
1450	KASME	OctetString
1451	Reserved	-
1452	Trace-Collection-Entity	Address
1453	Kc	OctetString
1454	SRES	OctetString
1455	Reserved	-
1456	PDN-Type	Enumerated
1457	Roaming-Restricted-Due-To-Unsupported-Feature	Enumerated
1458	Trace-Data	Grouped
1459	Trace-Reference	OctetString
1460	Reserved	-
1461	Reserved	_
1462	Trace-Depth	Enumerated
1463	Trace-NE-Type-List	OctetString
1464	Trace-Interface-List	OctetString
1465	Trace-Event-List	OctetString
1466	OMC-Id	OctetString
1467	GPRS-Subscription-Data	Grouped
1160	Complete-Data-List-Included-Indicator	Enumerated
1468		
1469	PDP-Context	Grouped
1469 1470	PDP-Context PDP-Type	Grouped OctetString
1469 1470 1471	PDP-Context PDP-Type 3GPP2-MEID	Grouped
1469 1470 1471	PDP-Context PDP-Type	Grouped OctetString OctetString Grouped
1469 1470 1471 1472	PDP-Context PDP-Type 3GPP2-MEID	Grouped OctetString OctetString Grouped Grouped
1469	PDP-Context PDP-Type 3GPP2-MEID Specific-APN-Info LCS-Info	Grouped OctetString OctetString Grouped Grouped
1469 1470 1471 1472 1473 1474	PDP-Context PDP-Type 3GPP2-MEID Specific-APN-Info LCS-Info GMLC-Number	Grouped OctetString OctetString Grouped Grouped OctetString
1469 1470 1471 1472 1473 1474 1475	PDP-Context PDP-Type 3GPP2-MEID Specific-APN-Info LCS-Info GMLC-Number LCS-PrivacyException	Grouped OctetString OctetString Grouped Grouped OctetString Grouped
1469 1470 1471 1472 1473 1474 1475 1476	PDP-Context PDP-Type 3GPP2-MEID Specific-APN-Info LCS-Info GMLC-Number LCS-PrivacyException SS-Code	Grouped OctetString OctetString Grouped Grouped OctetString Grouped OctetString OctetString OctetString
1469 1470 1471 1472 1473 1474 1475 1476 1477	PDP-Context PDP-Type 3GPP2-MEID Specific-APN-Info LCS-Info GMLC-Number LCS-PrivacyException SS-Code SS-Status	Grouped OctetString OctetString Grouped Grouped OctetString Grouped OctetString OctetString OctetString
1469 1470 1471 1472 1473 1474 1475 1476 1477	PDP-Context PDP-Type 3GPP2-MEID Specific-APN-Info LCS-Info GMLC-Number LCS-PrivacyException SS-Code SS-Status Notification-To-UE-User	Grouped OctetString OctetString Grouped Grouped OctetString Grouped OctetString OctetString OctetString Enumerated
1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479	PDP-Context PDP-Type 3GPP2-MEID Specific-APN-Info LCS-Info GMLC-Number LCS-PrivacyException SS-Code SS-Status Notification-To-UE-User External-Client	Grouped OctetString OctetString Grouped Grouped OctetString Grouped OctetString Grouped OctetString OctetString OctetString Grouped OctetString Grouped Grouped
1469 1470 1471 1472 1473 1474 1475 1476 1477	PDP-Context PDP-Type 3GPP2-MEID Specific-APN-Info LCS-Info GMLC-Number LCS-PrivacyException SS-Code SS-Status Notification-To-UE-User	Grouped OctetString OctetString Grouped Grouped OctetString Grouped OctetString OctetString OctetString Enumerated

1482	PLMN-Client	Enumerated		
1483	Service-Type	Grouped		
1484	ServiceTypeIdentity	Unsigned32		
	MO-LR	Grouped		
1486	Teleservice-List	Grouped		
	TS-Code	Enumerated		
	Call-Barring-Info	Grouped		
	SGSN-Number	OctetString		
	IDR-Flags	Unsigned32		
	ICS-Indicator	<u> </u>		
		Enumerated		
	IMS-Voice-Over-PS-Sessions-Supported	Enumerated		
	Homogeneous-Support-of-IMS-Voice-Over-PS-Sessions	Enumerated	_	
1494	Last-UE-Activity-Time	Time		
	EPS-User-State	Grouped		
	EPS-Location-Information	Grouped		
1497	MME-User-State	Grouped		
1498	SGSN-User-State	Grouped		
1499	User-State	Enumerated		
			l	
1500	Non-3GPP-User-Data	Grouped		
	Non-3GPP-IP-Access	Enumerated	-	
	Non-3GPP-IP-Access-APN	Enumerated	+	
			1	
	AN-Trusted	Enumerated	-	
	ANID	UTF8String	_	
	Trace-Info	Grouped		
	MIP-FA-RK	OctetString		
	MIP-FA-RK-SPI	Unsigned32		
	PPR-Flags	Unsigned32		
1509	WLAN-Identifier	Grouped		
1510	TWAN-Access-Info	Grouped		
1511	Access-Authorization-Flags	Unsigned32		
	TWAN-Default-APN-Context-Id	Unsigned32		
	Reserved	-	_	
1514	Reserved	-	<u> </u>	
	Reserved		29.273 [20]	
		OctotString	_	
	Full-Network-Name	OctetString		
1517	Short-Network-Name	OctetString		
	AAA-Failure-Indication	Unsigned32		
	Transport-Access-Type	Enumerated		
	DER-Flags	Unsigned32		
1521	DEA-Flags	Unsigned32		
1522	RAR-Flags	Unsigned32		
1523	DER-S6b-Flags	Unsigned32		
1524	SSID	UTF8String	1	
1525	HESSID	UTF8String	1	
1526	Access-Network-Info	Grouped		
1527	TWAN-Connection-Mode	Unsigned32	1	
1528	TWAN-Connection-wode TWAN-Connectivity-Parameters	Grouped	+	
1528		Unsigned32	4	
	Connectivity-Flags		l rin a	
	TWAN-PCO	OctetSt		
1531	TWAG-CP-Address	Addre		
1532	TWAG-UP-Address	UTF8St		
1533	TWAN-S2a-Failure-Cause	Unsigne		
1534	SM-Back-Off-Timer	Unsigne	ed32	
1535	WLCP-Key	OctetSt	tring	
318	3GPP-AAA-Server-Name	Diameterl		
1536	Origination-Time-Stamp	Unsigne		
1537	Maximum-Wait-Time	Unsigne		
		Unsigne		
	Emergency-Services			
	AAR-Flags	Unsigne		
	IMEI-Check-In-VPLMN-Result	Unsigne		
	ERP-Authorization	Unsigne	ed32	
	The AVP codes from 1542 to 1599 are reserved for TS 29.273		5032	

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.

	T		
	MME-Location-Information	Grouped	
1601	SGSN-Location-Information	Grouped	
	E-UTRAN-Cell-Global-Identity	OctetString	4
1603	Tracking-Area-Identity	OctetString	
1604	Cell-Global-Identity	OctetString	4
	Routing-Area-Identity	OctetString	
1606	Location-Area-Identity	OctetString	
1607	Service-Area-Identity	OctetString	
1608	Geographical-Information	OctetString	4
1609	Geodetic-Information	OctetString	4
1610	Current-Location-Retrieved	Enumerated	
1611	Age-Of-Location-Information Active-APN	Unsigned32	
	SIPTO-Permission	Grouped	-
	Error-Diagnostic	Enumerated Enumerated	1
	UE-SRVCC-Capability	Enumerated	1
	MPS-Priority	Unsigned32	1
1617	VPLMN-LIPA-Allowed	Enumerated	1
	LIPA-Permission	Enumerated	1
	Subscribed-Periodic-RAU-TAU-Timer	Unsigned32	
	Ext-PDP-Type	OctetString	†
	Ext-PDP-Address	Address	†
	MDT-Configuration	Grouped	†
1623	Job-Type	Enumerated	†
	Area-Scope	Grouped	1
	List-Of-Measurements	Unsigned32	†
	Reporting-Trigger	Unsigned32	
1627	Report-Interval	Enumerated	1
	Report-Amount	Enumerated	-
	Event-ThresholdRSRP	Unsigned32	1
	Event-ThresholdRSRQ	Unsigned32	1
1631	Logging-Interval	Enumerated	1
	Logging-Duration	Enumerated	29.272
	Relay-Node-Indicator	Enumerated	[21]
	MDT-User-Consent	Enumerated	1
	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	-]
	MME-Number-for-MT-SMS	OctetString]
1646	Reserved	-]
1647	Reserved	-]
1648	SMS-Register-Request	Enumerated	1
1649	Local-Time-Zone	Grouped	1
1650	Daylight-Saving-Time	Enumerated	1
1651	GMLC-Info	Grouped	1
1652	GMLC-Name	DiameterIdentity	4
1653	GMLC-Realm	DiameterIdentity	1
1654	Subscription-Data-Flags	Unsigned32	4
1655	Measurement-Period-LTE	Enumerated	4
1656	Measurement-Period-UMTS	Enumerated	4
1657	Collection-Period-RRM-LTE	Enumerated	4
1658	Collection-Period-RRM-UMTS	Enumerated	4
1659	Positioning-Method	OctetString	4
1660	Measurement-Quantity	OctetString	4
1661	Event-Threshold-Event-1F	Integer32	4
1662	Event-Threshold-Event-1I	Integer32	4
	Restoration-Priority	Unsigned32	
1663 1664	SGs-MME-Identity	UTF8String	1

4005	TOIDTO L. LIN C. L. D	11	
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	1
1670	Reset-ID	OctetString	1
1671	MDT-Allowed-PLMN-Id	OctetString	1
1672	Adjacent-PLMNs	Grouped	4
1673	Adjacent-Access-Restriction-Data	Grouped	=
			=
1674	DL-Buffering-Suggested-Packet-Count	Integer32	4
1675	IMSI-Group-Id	Grouped	=
1676	Group-Service-Id	Unsigned32	
1677	Group-PLMN-Id	OctetString	
1678	Local-Group-Id	OctetString	1
1679	AIR-Flags	Unsigned32	1
1680	UE-Usage-Type	Unsigned32	1
1681	Non-IP-PDN-Type-Indicator	Enumerated	1
1682	Non-IP-Data-Delivery-Mechanism	Unsigned32	-
			4
1683	Additional-Context-Identifier	Unsigned32	4
1684	SCEF-Realm	DiameterIdentity	4
1685	Subscription-Data-Deletion	Grouped	
1686	Preferred-Data-Mode	Unsigned32	
1687	Emergency-Info	Grouped	
1688	V2X-Subscription-Data	Grouped]
1689	V2X-Permission	Unsigned32	1
1690	PDN-Connection-Continuity	Unsigned32	1
1691	eDRX-Cycle-Length	Grouped	1
1692	eDRX-Cycle-Length-Value	OctetString	-
			4
1693	UE-PC5-AMBR	Unsigned32	4
1694	MBSFN-Area	Grouped	=
1695	MBSFN-Area-ID	Unsigned32	
1696	Carrier-Frequency	Unsigned32	
1697	RDS-Indicator	Enumerated	
1698	Service-Gap-Time	Unsigned32	1
1699	Aerial-UE-Subscription-Information	Unsigned32	1
1700	Broadcast-Location-Assistance-Data-Types	Unsigned64	=
1701	Paging-Time-Window	Grouped	4
1701	Operation-Mode	Unsigned32	-
	Paging-Time-Window-Length		4
1703		OctetString	=
1704	Core-Network-Restrictions	Unsigned32	4
1705	eDRX-Related-RAT	Grouped	
1706	Interworking-5GS-Indicator	Enumerated	
1707	Ethernet-PDN-Type-Indicator	Enumerated	
1708	Subscribed-ARPI	Unsigned32	1
1709	IAB-Operation-Permission	Enumerated	1
1710	V2X-Subscription-Data-Nr	Grouped	1
1711	UE-PC5-QoS	Grouped	1
1711	PC5-QoS-Flow		-
		Grouped	4
1713	5QI	Integer32	4
1714	PC5-Flow-Bitrates	Grouped	4
1715	Guaranteed-Flow-Bitrates	Integer32	_
1716	Maximum-Flow-Bitrates	Integer32	
1717	PC5-Range	Integer32	
1718	PC5-Link-AMBR	Integer32]
1719	Third-Context-ID	Unsigned32	1
	The AVP codes from 1720 to 1799 are reserved for TS 29.272.	51101g110402	1
2000	SMS-Information	Grouped	1
2001			=
	Data-Coding-Scheme	Integer32	4
2002	Destination-Interface	Grouped	4
2003	Interface-Id	UTF8String	32.299
2004	Interface-Port	UTF8String	[5]
2005	Interface-Text	UTF8String	ا ا
2006	Interface-Type	Enumerated	
2007	SM-Message-Type	Enumerated]
2008	Originating-SCCP-Address	Address	1
	1- 9 39		.1

	1		
2009	Originator-Interface	Grouped	
2010	Recipient-SCCP-Address	Address	
2011	Reply-Path-Requested	Enumerated	
2012	SM-Discharge-Time	Time	
2013	SM-Protocol-ID	OctetString	1
2014	SM-Status	OctetString	
2015	SM-User-Data-Header	OctetString	1
	SMS-Node	Enumerated	-
2017	SMSC-Address	Address	+
2018	Client-Address	Address	
2019	Number-of-Messages-Sent	Unsigned32	
2020	Low-Balance-Indication	Enumerated	
2021	Remaining-Balance	Grouped	
2022	Refund-Information	OctetString	
2023	Carrier-Select-Routing-Information	UTF8String	
2024	Number-Portability-Routing-Information	UTF8String	
2025	PoC-Event-Type	Enumerated	1
2026	Recipient-Info	Grouped	-
			+
2027	Originator-Received-Address	Grouped	
2028	Recipient-Received-Address	Grouped	
2029	SM-Service-Type	Enumerated	1
2030	MMTel-Information	Grouped	
2031	MMTel-Sservice-Type	Unsigned32]
2032	Service-Mode	Unsigned32	
2033	Subscriber-Role	Enumerated	
2034	Number-Of-Diversions	Unsigned32	1
2035	Associated-Party-Address	UTF8String	
2036	SDP-Type	Enumerated	
2037	Change-Condition		+
		Integer32	-
2038	Change-Time	Time	1
2039	Diagnostics	Integer32	
2040	Service-Data-Container	Grouped	
2041	Start-Time	Time	
2042	Stop-Time	Time	
2043	Time-First-Usage	Time	
2044	Time-Last-Usage	Time	1
2045	Time-Usage	Unsigned32	
2046	Traffic-Data-Volumes	Grouped	†
	Serving-Node-Type	Enumerated	
2048	Supplementary-Service		+
		Grouped	
	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	1
2056	Current-Tariff	Grouped	1
2057	Next-Tariff	Grouped	
2058	Rate-Element	Grouped	1
2059	Scale-Factor	Grouped	1
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	1
2067	SGW-Address	Address	1
2068	Dynamic-Address-Flag-Extension	Enumerated	j
	The AVP codes from 2069 to 2099 are reserved for TS 32.299.		
2100	reserved	-	
2101	Application-Server-ID	UTF8String	32.299
2102	Application-Service-Type	Enumerated	[5]
2103	Application-Session-ID	Unsigned32	
		<u>. </u>	

0404	Delivery Clatus	LITEOO!:	
2104	Delivery-Status	UTF8String	
2105 2106	reserved reserved	-	
2107	reserved		
2108	reserved		
2109	reserved	_	
2110	IM-Information	Grouped	
2111	Number-Of-Messages-Successfully-Exploded	Unsigned32	
2112	Number-Of-Messages-Successfully-Sent	Unsigned32	
2113	Total-Number-Of-Messages-Exploded	Unsigned32	
2114	Total-Number-Of-Messages-Sent	Unsigned32	
2115	DCD-Information	Grouped	
2116	Content-ID	UTF8String	
2117	Content-provider-ID	UTF8String	
2118	Charge-Reason-Code	Enumerated	
Note: T	The AVP codes from 2119 to 2199 are reserved for TS 32.299.		
2200	Subsession-Decision-Info	Grouped	
2201	Subsession-Enforcement-Info	Grouped	
2202	Subsession-Id	Unsigned32	
2203	Subsession-Operation	Enumerated	29.215
2204	Multiple-BBERF-Action	Enumerated	[22]
2205	UE-Local-IPv6-Prefix	OctetString	
2206	DRA-Deployment	Enumerated	
2207	PCRF-Address	DiameterIdentity	
2208	DRA-Binding	Enumerated	
	The AVP codes from 2209 to 2299 are reserved for TS 29.215.		T
2300	reserved	-	
2301	SIP-Request-Timestamp-Fraction	Unsigned32	
2302	SIP-Response-Timestamp-Fraction	Unsigned32 Enumerated	
2303 2304	Online-Charging-Flag CUG-Information	OctetString	
2304	Real-Time-Tariff-Information	Grouped	
2305	Tariff-XML	UTF8String	
2307	MBMS GW-Address	Address	
2308	IMSI-Unauthenticated-Flag	Enumerated	
2309	Account-Expiration	Time	
2310	AoC-Format	Enumerated	
2311	AoC-Service	Enumerated	32.299
	AoC-Service-Obligatory-Type	Grouped	[5]
	AoC-Service-Type	Enumerated	— [",
	AoC-Subscription-Information	Grouped	
	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	
	he AVP codes from 2324 to 2399 are reserved for TS 32.299.		
2400	LMSI	OctetString	
2401	Serving-Node	Grouped	
2402	MME-Name	DiameterIdentity	
2403	MSC-Number	OctetString	
2404	LCS-Capabilities-Sets	Unsigned32	
2405	GMLC-Address	Address	29.173
2406	Additional-Serving-Node	Grouped	[25]
2407	PPR-Address	Address	_
2408	MME-Realm	DiameterIdentity	_
2409	SGSN-Name	DiameterIdentity	_
2410	SGSN-Realm	DiameterIdentity	_
2411	RIA-Flags	Unsigned32	
	The AVP codes from 2412 to 2499 are reserved for TS 29.173.	F	<u> </u>
2500	SLg-Location-Type	Enumerated	1

	,	,	
	LCS-EPS-Client-Name	Grouped	
	LCS-Requestor-Name	Grouped	
	LCS-Priority	Unsigned32	
	LCS-QoS	Grouped	
	Horizontal-Accuracy	Unsigned32	
	Vertical-Accuracy	Unsigned32	
2507	Vertical-Requested	Enumerated	
2508	Velocity-Requested	Enumerated	
	Response-Time	Enumerated	
	Supported-GAD-Shapes	Unsigned32	
	LCS-Codeword	UTF8String	
	LCS-Privacy-Check	Enumerated	
	Accuracy-Fulfilment-Indicator	Enumerated	
	Age-Of-Location-Estimate	Unsigned32	4
	Velocity-Estimate	OctetString	4
	EUTRAN-Positioning-Data	OctetString	4
	ECGI	OctetString	4
	Location-Event	Enumerated	4
	Pseudonym-Indicator	Enumerated	4
	LCS-Service-Type-ID	Unsigned32	4
	LCS-Privacy-Check-Non-Session	Grouped	
	LCS-Privacy-Check-Session	Grouped	
	LCS-QoS-Class	Enumerated	
	GERAN-Positioning-Info	Grouped	-
	GERAN-Positioning-Data	OctetString	-
2526 2527	GERAN-GANSS-Positioning-Data	OctetString	-
	UTRAN-Positioning-Info	Grouped	-
2528 2529	UTRAN-Positioning-Data UTRAN-GANSS-Positioning-Data	OctetString	-
		OctetString Unsigned32	
	LRR-Flags LCS-Reference-Number	OctetString	-
	Deferred-Location-Type	Unsigned32	1
2532	Area-Event-Info	Grouped	29.172
2534	Area-Definition	Grouped	[24]
	Area	Grouped	
	Area-Type	Unsigned32	
	Area-Identification	Grouped	
2538	Occurrence-Info	Enumerated	
	Interval-Time	Unsigned32	1
	Periodic-LDR-Information	Grouped	1
2541	Reporting-Amount	Unsigned32	1
	Reporting-Interval	Unsigned32	
2543	Reporting-PLMN-List	Grouped	
2544	PLMN-ID-List	Grouped	
2545	PLR-Flags	Unsigned32	1
	PLA-Flags	Unsigned32	
2547	Deferred-MT-LR-Data	Grouped	
2548	Termination-Cause	Unsigned32	
2549	LRA-Flags	Unsigned32	
2550	Periodic-Location-Support-Indicator	Enumerated	
2551	Prioritized-List-Indicator	Enumerated	
2552	ESMLC-Cell-Info	Grouped	
2553	Cell-Portion-ID	Unsigned32	
2554	1xRTT-RCID	OctetString	1
2555	Delayed-Location-Reporting-Data	Grouped	1
2556	Civic-Address	UTF8String	1
2557	Barometric-Pressure	Unsigned32	1
2558	UTRAN-Additional-Positioning-Data	OctetString	1
2559	Motion-Event-Info	Grouped	1
2560	Linear-Distance	Unsigned32	1
2561	Maximum-Interval	Unsigned32	
2562	Sampling-Interval	Unsigned32	1
2563	Reporting-Duration	Unsigned32]
2564	Reporting-Location-Requirements	Unsigned32]
2565	Additional-Area	Grouped]
			_

1960 1963-Popication-Reference-Identifier	Note: T	he AVP codes from 2566 to 2599 are reserved for TS 29.172.		
INS-Application-Reference-Identifier			-	T
			UTF8String	22 200
P-Realm-Default-Indicator				
Local-GW-Inserted-Indicator				
2606 PDP-Address-Prefix-Length Unsigned32				[5]
Note: The AVP codes from 2607 to 2699 are reserved for TS 32.299.				
2700 Reserved	2606	PDP-Address-Prefix-Length	Unsigned32	
			•	
2704 NNI-Information			· ·	
2706 Neighbour-Node-Address				
2707 Relationship-Mode				
2707 Session-Direction				
2709				
2770				
2711				
2711 Related-IMS-Charging-Identifier				[5]
2712 Related-IMS-Charging-Identifier-Node				
2713 IMS-Visited-Network-Identifier				4
Table Time				4
2716 Reserved				\dashv
2716			- Grouped	=
TAD-Identifier			LITERString	+
Note: The AVP codes from 2718 to 2799 are reserved for TS 32.299.				
Reserved ADC-Revalidation-Time Time Time CotetString			Enamerated	
ADC-Revalidation-Time			-	
2802 TDF-Application-Instance-Identifier OctetString 2803 HeNB-BBF-FQDN UTF8String 2804 HeNB-BBF-FQDN UTF8String 2805 UE-Local-IP-Address Address Address Address Address Address Address OctetString 2807 CS-Service-Qos-Request-Identifier OctetString 2808 CS-Service-Qos-Request-Operation Enumerated Enumerat			Time	
2803 HeNB-BBF-FODN UTF8String				
2805 UE-Local-IP-Address Address 2806 UDP-Source-Port Unsigned32 2807 CS-Service-Qos-Request-Identifier OctetString 2808 CS-Service-QoS-Request-Operation Enumerated 2809 Mute-Notification Enumerated 2810 Monitoring-Time Time 2811 AN-GW-Status Enumerated 2812 User-Location-Info-Time Grouped 2813 CS-Service-Resource-Report Time 2814 CS-Service-Resource-Report Enumerated 2815 CS-Service-Resource-Resource-Report Enumerated 2816 Default-QoS-Information Grouped 2817 Default-QoS-Information Grouped 2810 Default-QoS-Information Grouped 2811 RAN-NAS-Release-Cause OctetString 2821 Presence-Reporting-Area-Identifier OctetString 2821 Presence-Reporting-Area-Information Grouped 2822 Presence-Reporting-Area-Status Unsigned32 2823 Pixed-User-Location-				
2806 UDP-Source-Port Unsigned32 2807 CS-Service-Qos-Request-Identifier OctetString 2808 CS-Service-Qos-Request-Operation Enumerated 2809 Mute-Notification Enumerated 2810 Monitoring-Time Time 2811 AN-GW-Status Enumerated 2812 User-Location-Info-Time Grouped 2813 CS-Service-Resource-Report Time 2814 CS-Service-Resource-Failure-Cause Enumerated 2815 CS-Service-Resource-Resource-Report Enumerated 2816 Default-QoS-Information Grouped 2817 Default-QoS-Information Grouped 2818 Conditional-APN-Aggregate-Max-Bitrate Grouped 2819 RAN-NAS-Release-Cause OctetString 2820 Presence-Reporting-Area-Elements-List OctetString 2821 Presence-Reporting-Area-Information Grouped 2822 Presence-Reporting-Area-Status Unsigned32 2823 Presence-Reporting-Area-Status Unsigned32 2825	2804	HeNB-Local-IP-Address	Address	
2807 CS-Service-Qos-Request-Identifier OctetString	2805	UE-Local-IP-Address	Address	
Z808 CS-Service-QoS-Request-Operation Enumerated				
2809 Mute-Notification Enumerated			OctetString	
2810 Monitoring-Time Time 2811 AN-GW-Status Enumerated 2812 User-Location-Info-Time Grouped Time 2813 CS-Service-Resource-Report Time 2814 CS-Service-Resource-Report Time 2814 CS-Service-Resource-Report Time 2814 CS-Service-Resource-Result-Operation Enumerated 2815 CS-Service-Resource-Result-Operation Enumerated 2816 Default-QoS-Information Grouped UTF8String 2817 Default-QoS-Name UTF8String 2818 Conditional-APN-Aggregate-Max-Bitrate Grouped 2819 RAN-NAS-Release-Cause OctetString 2820 Presence-Reporting-Area-Ielements-List OctetString 2821 Presence-Reporting-Area-Information Grouped 2822 Presence-Reporting-Area-Information Grouped 2823 Presence-Reporting-Area-Status Unsigned32 2824 NetLoc-Access-Support Unsigned32 2825 Fixed-User-Location-Info Grouped 2826 PCSCF-Restoration-Indication Unsigned32 2827 IP-CAN-Session-Charging-Scope Enumerated 2828 Monitoring-Flags Unsigned32 2829 Default-Acces Enumerated 2830 NBIFOM-Mode Enumerated 2831 NBIFOM-Support Enumerated 2832 RAN-Rule-Support Unsigned32 2833 Routing-Rule-Failure-Code Unsigned32 2834 Routing-Rule-Failure-Code Unsigned32 2835 Routing-Rule-Failure-Code Unsigned32 2835 Routing-Rule-Failure-Code Unsigned32 2836 Routing-Rule-Report Grouped				
2811 AN-GW-Status				
2812User-Location-Info-TimeGrouped2813CS-Service-Resource-ReportTime2814CS-Service-Resource-Failure-CauseEnumerated2815CS-Service-Resource-Result-OperationEnumerated2816Default-QoS-InformationGrouped2817Default-QoS-InformationUTF8String2818Conditional-APN-Aggregate-Max-BitrateGrouped2819RAN-NAS-Release-CauseOctetString2820Presence-Reporting-Area-Elements-ListOctetString2821Presence-Reporting-Area-IdentifierOctetString2822Presence-Reporting-Area-InformationGrouped2823Presence-Reporting-Area-StatusUnsigned322824NetLoc-Access-SupportUnsigned322825Fixed-User-Location-InfoGrouped2826PCSCF-Restoration-IndicationUnsigned322827IP-CAN-Session-Charging-ScopeEnumerated2828Monitoring-FlagsUnsigned322829Default-AccessEnumerated2831NBIFOM-ModeEnumerated2831NBIFOM-SupportEnumerated2832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-Failure-CodeUnsigned32				
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 UTF85tring 2817 Default-QoS-Name UTF85tring 2818 Conditional-APN-Aggregate-Max-Bitrate Grouped Grouped 2819 RAN-NAS-Release-Cause OctetString 2820 Presence-Reporting-Area-Elements-List OctetString 2821 Presence-Reporting-Area-Identifier OctetString 2822 Presence-Reporting-Area-Information Grouped 2823 Presence-Reporting-Area-Information Grouped 2824 NetLoc-Access-Support Unsigned32 2825 Fixed-User-Location-Info Grouped 2826 PCSCF-Restoration-Indication Unsigned32 2827 IP-CAN-Session-Charging-Scope Enumerated 2828 Monitoring-Flags Unsigned32 2829 Default-Access Enumerated 2830 NBIFOM-Mode Enumerated 2831 NBIFOM-Support Enumerated 2832 RAN-Rule-Support Unsigned32 2833 Access-Availability-Change-Reason Unsigned32 2834 Routing-Rule-Failure-Code Unsigned32 2835 Routing-Rule-Failure-Code Unsigned32 2835 Routing-Rule-Report Grouped				
2814 CS-Service-Resource-Failure-Cause Enumerated 2815 CS-Service-Resource-Result-Operation Enumerated 2816 Default-QoS-Information Grouped 2817 Default-QoS-Name UTF8String 2818 Conditional-APN-Aggregate-Max-Bitrate Grouped 2819 RAN-NAS-Release-Cause OctetString 2820 Presence-Reporting-Area-Iements-List OctetString 2821 Presence-Reporting-Area-Information Grouped 2822 Presence-Reporting-Area-Information Grouped 2823 Presence-Reporting-Area-Status Unsigned32 2824 NetLoc-Access-Support Unsigned32 2825 Fixed-User-Location-Info Grouped 2826 PCSCF-Restoration-Indication Unsigned32 2827 IP-CAN-Session-Charging-Scope Enumerated 2828 Monitoring-Flags Unsigned32 2829 Default-Access Enumerated 2830 NBIFOM-Mode Enumerated 2831 NBIFOM-Support Enumerated 2832 RAN-Rule-Support Unsigned32 2833 Access-Availability-Change-Reason Unsigned32 2834 Routing-Rule-Failure-Code Unsigned32 2835 Routing-Rule-Failure-Code Unsigned32 2836 Routing-Rule-Report Grouped				
2815CS-Service-Resource-Result-OperationEnumerated2816Default-QoS-InformationGrouped2817Default-QoS-NameUTF8String2818Conditional-APN-Aggregate-Max-BitrateGrouped2819RAN-NAS-Release-CauseOctetString2820Presence-Reporting-Area-Elements-ListOctetString2821Presence-Reporting-Area-IdentifierOctetString2822Presence-Reporting-Area-InformationGrouped2823Presence-Reporting-Area-StatusUnsigned322824NetLoc-Access-SupportUnsigned322825Fixed-User-Location-InfoGrouped2826PCSCF-Restoration-IndicationUnsigned322827IP-CAN-Session-Charging-ScopeEnumerated2828Monitoring-FlagsUnsigned322829Default-AccessEnumerated2830NBIFOM-ModeEnumerated2831NBIFOM-SupportEnumerated2832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped				
2816Default-QoS-InformationGrouped2817Default-QoS-NameUTF8String2818Conditional-APN-Aggregate-Max-BitrateGrouped2819RAN-NAS-Release-CauseOctetString2820Presence-Reporting-Area-Elements-ListOctetString2821Presence-Reporting-Area-IdentifierOctetString2822Presence-Reporting-Area-InformationGrouped2823Presence-Reporting-Area-StatusUnsigned322824NetLoc-Access-SupportUnsigned322825Fixed-User-Location-InfoGrouped2826PCSCF-Restoration-IndicationUnsigned322827IP-CAN-Session-Charging-ScopeEnumerated2828Monitoring-FlagsUnsigned322829Default-AccessEnumerated2830NBIFOM-ModeEnumerated2831NBIFOM-SupportUnsigned322832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-Failure-CodeUnsigned32				
2817Default-QoS-NameUTF8String2818Conditional-APN-Aggregate-Max-BitrateGrouped2819RAN-NAS-Release-CauseOctetString2820Presence-Reporting-Area-Elements-ListOctetString2821Presence-Reporting-Area-IdentifierOctetString2822Presence-Reporting-Area-InformationGrouped2823Presence-Reporting-Area-StatusUnsigned322824NetLoc-Access-SupportUnsigned322825Fixed-User-Location-InfoGrouped2826PCSCF-Restoration-IndicationUnsigned322827IP-CAN-Session-Charging-ScopeEnumerated2828Monitoring-FlagsUnsigned322829Default-AccessEnumerated2830NBIFOM-ModeEnumerated2831NBIFOM-SupportEnumerated2832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped				
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RAN-NAS-Release-Cause OctetString				29.212
2820 Presence-Reporting-Area-Elements-List OctetString 2821 Presence-Reporting-Area-Identifier OctetString 2822 Presence-Reporting-Area-Information Grouped 2823 Presence-Reporting-Area-Status Unsigned32 2824 NetLoc-Access-Support Unsigned32 2825 Fixed-User-Location-Info Grouped 2826 PCSCF-Restoration-Indication Unsigned32 2827 IP-CAN-Session-Charging-Scope Enumerated 2828 Monitoring-Flags Unsigned32 2829 Default-Access Enumerated 2830 NBIFOM-Mode Enumerated 2831 NBIFOM-Support Enumerated 2832 RAN-Rule-Support Unsigned32 2833 Access-Availability-Change-Reason Unsigned32 2834 Routing-Rule-Failure-Code Unsigned32 2835 Routing-Rule-Report Grouped				
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2822Presence-Reporting-Area-InformationGrouped2823Presence-Reporting-Area-StatusUnsigned322824NetLoc-Access-SupportUnsigned322825Fixed-User-Location-InfoGrouped2826PCSCF-Restoration-IndicationUnsigned322827IP-CAN-Session-Charging-ScopeEnumerated2828Monitoring-FlagsUnsigned322829Default-AccessEnumerated2830NBIFOM-ModeEnumerated2831NBIFOM-SupportEnumerated2832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped				\dashv
2823Presence-Reporting-Area-StatusUnsigned322824NetLoc-Access-SupportUnsigned322825Fixed-User-Location-InfoGrouped2826PCSCF-Restoration-IndicationUnsigned322827IP-CAN-Session-Charging-ScopeEnumerated2828Monitoring-FlagsUnsigned322829Default-AccessEnumerated2830NBIFOM-ModeEnumerated2831NBIFOM-SupportEnumerated2832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped				\dashv
2824NetLoc-Access-SupportUnsigned322825Fixed-User-Location-InfoGrouped2826PCSCF-Restoration-IndicationUnsigned322827IP-CAN-Session-Charging-ScopeEnumerated2828Monitoring-FlagsUnsigned322829Default-AccessEnumerated2830NBIFOM-ModeEnumerated2831NBIFOM-SupportEnumerated2832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped				\dashv
2825Fixed-User-Location-InfoGrouped2826PCSCF-Restoration-IndicationUnsigned322827IP-CAN-Session-Charging-ScopeEnumerated2828Monitoring-FlagsUnsigned322829Default-AccessEnumerated2830NBIFOM-ModeEnumerated2831NBIFOM-SupportEnumerated2832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped				=
2826PCSCF-Restoration-IndicationUnsigned322827IP-CAN-Session-Charging-ScopeEnumerated2828Monitoring-FlagsUnsigned322829Default-AccessEnumerated2830NBIFOM-ModeEnumerated2831NBIFOM-SupportEnumerated2832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped				1
2827IP-CAN-Session-Charging-ScopeEnumerated2828Monitoring-FlagsUnsigned322829Default-AccessEnumerated2830NBIFOM-ModeEnumerated2831NBIFOM-SupportEnumerated2832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped				1
2828Monitoring-FlagsUnsigned322829Default-AccessEnumerated2830NBIFOM-ModeEnumerated2831NBIFOM-SupportEnumerated2832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped				7
2829Default-AccessEnumerated2830NBIFOM-ModeEnumerated2831NBIFOM-SupportEnumerated2832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped				1
2830NBIFOM-ModeEnumerated2831NBIFOM-SupportEnumerated2832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped				1
2831NBIFOM-SupportEnumerated2832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped				1
2832RAN-Rule-SupportUnsigned322833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped				┪
2833Access-Availability-Change-ReasonUnsigned322834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped				
2834Routing-Rule-Failure-CodeUnsigned322835Routing-Rule-ReportGrouped				
2835 Routing-Rule-Report Grouped				
	2835			
				7

2027	Treffic Charing Policy Identifica III	Ontat Ctrica	
	Traffic-Steering-Policy-Identifier-UL	OctetString	
	Request-Type	Unsigned32	
	Execution-Time	Time	
	Conditional-Policy-Information Resource-Release-Notification	Grouped	
	Removal-Of-Access	Enumerated	
		Enumerated	
	TCP-Source-Port	Unsigned32	
	Default-Bearer-Indication	Enumerated	
	PRA-Install	Grouped	
	PRA-Remove	Grouped	
	3GPP-PS-Data-Off-Status	Enumerated	
	Extended-APN-AMBR-DL	Unsigned32	
	Extended-APN-AMBR-UL	Unsigned32	
	Extended-GBR-DL	Unsigned32	
	Extended-GBR-UL	Unsigned32	
	Max-PLR-DL	Unsigned32	
	Max-PLR-UL	Unsigned32	
	UE-Status	Unsigned32	
	he AVP codes from 2855 to 2899 are reserved for TS 29.212.		
	reserved	-	
	Policy-Counter-Identifier	Grouped	
	Policy-Counter-Status	UTF8String	
	Policy-Counter-Status-Report	Grouped	29.219
2904	SL-Request-Type	Enumerated	[26]
2905	Pending-Policy-Counter-Information	Grouped	
2906	Pending-Policy-Counter-Change-Time	Time	
2907	SN-Request-Type	Unsigned32	
Note: Ti	he AVP codes from 2908 to 2999 are reserved for TS 29.219.		•
3000	reserved	-	
3001	Device-Action	Grouped	
	Device-Notification	Grouped	
	Trigger-Data	Grouped	
	Payload	OctetString	
	Action-Type	Enumerated	
	Priority-Indication	Enumerated	29.368
	Reference-Number	Unsigned32	[27]
	Request-Status	Enumerated	
	Delivery-Outcome	Enumerated	
	Application-Port-Identifier	Unsigned32	
	Old-Reference-Number	Unsigned32	
	Feature-Supported-In-Final-Target	Unsigned32	
	he AVP codes from 3013 to 3099 are reserved for TS 29.368.	Onoignous2	II.
	IP-SM-GW-Number	OctetString	
	IP-SM-GW-Name	DiameterIdentity	
	User-Identifier	Grouped	
	Service-ID	Enumerated	
	SCS-Identity	OctetString	
	Service-Parameters	Grouped	
	T4-Parameters	Grouped	
	Service-Data	Grouped	
	T4-Data	Grouped	
	HSS-Cause	Unsigned32	
	SIR-Flags	Unsigned32	29.336
	External-Identifier	UTF8String	[28]
	IP-SM-GW-Realm	DiameterIdentity	
	AESE-Communication-Pattern	Grouped	
	Communication-Pattern-Set	Grouped	
	Periodic-Communication-Indicator	Unsigned32	
3116	Communication-Duration-Time	Unsigned32	
3117	II to manage to a literate	Unsigned32	
	Periodic-Time		
3118	Scheduled-Communication-Time	Grouped	
3118 3119	Scheduled-Communication-Time Stationary-Indication	Grouped Unsigned32	
3118 3119 3120	Scheduled-Communication-Time Stationary-Indication AESE-Communication-Pattern-Config-Status	Grouped Unsigned32 Grouped	
3118 3119 3120 3121	Scheduled-Communication-Time Stationary-Indication	Grouped Unsigned32	

0400	IN	
3123 3124	Monitoring-Event-Report SCEF-Reference-ID	Grouped
3124	SCEF-ID	Unsigned32 DiameterIdentity
3126 3127	SCEF-Reference-ID-for-Deletion Monitoring-Type	Unsigned32
	Maximum-Number-of-Reports	Unsigned32
3128 3129		Unsigned32 Grouped
	UE-Reachability-Configuration	Time
3130	Monitoring-Duration Maximum-Detection-Time	
3131 3132		Unsigned32
	Reachability-Type Maximum-Latency	Unsigned32
3133 3134		Unsigned32 Unsigned32
	Maximum-Response-Time	
3135	Location-Information-Configuration	Grouped
3136	MONTE-Location-Type	Unsigned32
3137	Accuracy	Unsigned32
3138	Association-Type	Unsigned32
3139	Roaming-Information	Unsigned32
3140	Reachability-Information	Unsigned32
3141	IMEI-Change	Unsigned32
3142	Monitoring-Event-Config-Status	Grouped
3143	Supported-Service	Grouped
3144	Supported-Monitoring-Event	Unsigned64
3145	CIR-Flags	Unsigned32
3146	Service-Result	Grouped
3147	Service-Result-Code	Unsigned32
3148	Reference-ID-Validity-Time	Time
3149	Event-handling	Unsigned32
3150	NIDD-Authorization-Request	Grouped
3151	NIDD-Authorization-Response	Grouped
3152	Service-Report	Grouped
3153	Node-Type	Unsigned32
3154	S6t-HSS-Cause	Unsigned32
3155	Enhanced-Coverage-Restriction	Grouped
3156	Enhanced-Coverage-Restriction-Data	Grouped
3157	Restricted-PLMN-List	Grouped
3158	Allowed-PLMN-List	Grouped
3159	Requested-Validity-Time	Time
3160	Granted-Validity-Time	Time
3161	NIDD-Authorization-Update	Grouped
3162	Loss-Of-Connectivity-Reason	Unsigned32
3163	Group-Reporting-Guard-Timer	Unsigned32
3164	CIA-Flags	Unsigned32
3165	Group-Report	Grouped
3166	Group-Report-Item	Grouped
3167	RIR-Flags	Unsigned32
3168	Type-Of-External-Identifier	Unsigned32
3169	APN-Validity-Time	Grouped
3170	Suggested-Network-Configuration	Grouped
3171	Monitoring-Event-Report-Status	Grouped
3172	PLMN-ID-Requested	Enumerated
3173	AdditionalIdentifiers	Grouped
3174	NIR-Flags	Unsigned32
3175	Reporting-Time-Stamp	Time
3176	Group-User-Identifier	Grouped
3177	NIA-Flags	Unsigned32
3178	MTC-Provider-Info	Grouped
3179	MTC-Provider-ID	UTF8String
3180	PDN-Connectivity-Status-Configuration	Grouped
3181	PDN-Connectivity-Status-Configuration PDN-Connectivity-Status-Report	Grouped
3182	PDN-Connectivity-Status-Report PDN-Connectivity-Status-Type	Unsigned32
3183	Traffic-Profile	Unsigned32
3184	Updated-Network-Configuration	Grouped
3185	Battery-Indicator	Unsigned32
3185	SCEF-Reference-ID-Ext	Unsigned32 Unsigned64
		Unsigned64
3187	SCEF-Reference-ID-for-Deletion-Ext	Unsigned04

Note: T	The AVP codes from 3188 to 3199 are reserved for TS 29.336.		
3200	SM-Delivery-Outcome-T4	Enumerated	
3201	Absent-Subscriber-Diagnostic-T4	Enumerated	29.337
3202	Trigger-Action	Unsigned32	[29]
3203	MTC-Error-Diagnostic	Unsigned32	
	The AVP codes from 3204 to 3299 are reserved for TS 29.337.		l .
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	
3317	MME-SM-Delivery-Outcome	Grouped	
3318	MSC-SM-Delivery-Outcome	Grouped	
3319	SGSN-SM-Delivery-Outcome	Grouped	
3320	IP-SM-GW-SM-Delivery-Outcome	Grouped	
3321	SM-Delivery-Cause	Enumerated	
3322	Absent-User-Diagnostic-SM	Unsigned32	29.338
3323	RDR-Flags	Unsigned32	[30]
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	
3334	SMSF-3GPP-Absent-User-Diagnostic-SM	Unsigned32	
3335	SMSF-Non-3GPP-Absent-User-Diagnostic-SM	Unsigned32	
3336	SMSF-3GPP-SM-Delivery-Outcome	Grouped	
3337	SMSF-Non-3GPP-SM-Delivery-Outcome	Grouped	
3338	SMSF-3GPP-Number	OctetString	
3339	SMSF-Non-3GPP-Number	OctetString	
3340	SMSF-3GPP-Name	DiameterIdentity	
3341 3342	SMSF-Non-3GPP-Name SMSF-3GPP-Realm	DiameterIdentity	
3343	SMSF-Non-3GPP-Realm	DiameterIdentity DiameterIdentity	
3344	SMSF-3GPP-Address		
3344	SMSF-Non-3GPP-Address	Grouped Grouped	
	The AVP codes from 3346 to 3399 are reserved for TS 29.338.	l Grouped	
3400	reserved	_	
3401	Reason-Header	UTF8String	
3402	Instance-Id	UTF8String	
3403	Route-Header-Received	UTF8String	
3404	Route-Header-Transmitted	UTF8String	
3405	SM-Device-Trigger-Information	Grouped	32.299
3406	MTC-IWF-Address	Address	[5]
3407	SM-Device-Trigger-Indicator	Enumerated	[0]
3408	SM-Sequence-Number	Unsigned32	
3409	SMS-Result	Unsigned32	
3410	VCS-Information	Grouped	
3411	Basic-Service-Code	Grouped	

		0	
3412	Bearer-Capability	OctetString	
3413	Teleservice	OctetString	
3414	ISUP-Location-Number	OctetString	
3415	Forwarding-Pending	Enumerated	
3416	ISUP-Release-Cause	Unsigned32	
3417	MSC-Address	OctetString	
3418	Network-Call-Reference-Number	OctetString	
3419	Start-of-Charging	Time	
3420	VLR-Number	OctetString	
3421	CN-Operator-Selection-Entity	Enumerated	
3422	ISUP-Cause-Diagnostics	OctetString	
3423	ISUP-Cause-Location	Unsigned32	
3424	ISUP-Cause-Value	Unsigned32	
3425	EPDG-Address	Address	
3426	Announcing-UE-HPLMN-Identifier	UTF8String	
3427	Announcing-UE-VPLMN-Identifier	UTF8String	
		ŭ	
3428	Coverage-Status	Enumerated	
3429	Layer-2-Group-ID	OctetString	
3430	Monitored-PLMN-Identifier	UTF8String	
3431	Monitoring-UE-HPLMN-Identifier	UTF8String	
3432	Monitoring-UE-Identifier	UTF8String	
3433	Monitoring-UE-VPLMN-Identifier	UTF8String	
3434	ProSe-PC3-Control-Protocol-Cause	Integer32	
3435	ProSe-PC3-EPC-Control-Protocol-Cause	Integer32	
3436	Requested-PLMN-Identifier	UTF8String	
3437	Requestor-PLMN-Identifier	UTF8String	
3438	Role-Of-ProSe-Function	Enumerated	
3439	Usage-Information-Report-Sequence-Number	Integer32	
3440	ProSe-3rd-Party-Application-ID	UTF8String	
3441	ProSe-Direct-Communication-Transmission-Data-Container	Grouped	
3442	ProSe-Direct-Discovery-Model	Enumerated	
3443	ProSe-Event-Type	Enumerated	
	ProSe-Function-IP-Address	Address	
3444			
3445	ProSe-Functionality	Enumerated	
3446	ProSe-Group-IP-Multicast-Addresses	Address	
3447	ProSe-Information	Grouped	
3448	ProSe-Range-Class	Enumerated	
3449	ProSe-Reason-For-Cancellation	Enumerated	
3450	ProSe-Request-Timestamp	Time	
3451	ProSe-Role-Of-UE	Enumerated	
3452	ProSe-Source-IP-Address	Address	
3453	ProSe-UE-ID	OctetString	
3454	Proximity-Alert-Indication	Enumerated	
3455	Proximity-Alert-Timestamp	Time	
3456	Proximity-Cancellation-Timestamp	Time	
3457	ProSe-Function-PLMN-Identifier	UTF8String	
3458	Application-Specific-Data	OctetString	
3459	Coverage-Info	Grouped	
3460	Location-Info	Grouped	
3461	ProSe-Direct-Communication-Reception-Data-Container	Grouped	
3462	Radio-Frequency	OctetString	
3463	Radio-Parameter-Set-Info	Grouped	
3464	Radio-Parameter-Set-Values	OctetString	
3465	Radio-Resources-Indicator	Integer32	
3466	Time-First-Reception	Time	
3467	Time-First-Transmission	Time	
3468	Transmitter-Info	Grouped	
	he AVP codes from 3469 to 3499 are reserved for TS 32.299.		
3500	BMSC-Address	Address	
3501	BMSC-Port	Unsigned32	
3502	MBMS-Bearer-Event	Unsigned32	00.400
3503	MBMS-Bearer-Event-Notification	Grouped	29.468
3504	MBMS-Bearer-Request	Grouped	[31]
3505	MBMS-Bearer-Response	Grouped	
3506	MBMS-Bearer-Result	Unsigned32	
2300		31101g110402	

	0507	IMPMO Otast Tires	T:	
TMGI-Allocation-Response	3507	MBMS-Start-Time	Time	
STIOL TMGI-Allocation-Response Grouped				
3511 TMGI-Allocation-Result				
3512 TMGI-Deallocation-Request Grouped				
STATE Common Co				
3514 TMGI-Deallocation-Result				
Strong				
Since TMGI-Number				
	3517	MB2U-Security		
MBMS-eNB-IP-Multicast-Address	3518	Local-M1-Information		
MBMS-6NB-BNB-IPV6-Multicast-Address				
MEMS-GW-SSM-IP-Address Address				
MBMS-GW-SSM-IPV6-Address Address Address S24 Common-Tunnel-Endpoint-Identifier CetelString S25 FEC-Reguest OctelString Grouped S25 FEC-Reguest Grouped Grouped				
S252 FEC-Request Grouped				
S527 ROHC-Full-Header-Periodicity				
S228 ROHC-Profile				
FEC-Result				
Note: The AVP codes from 3533 to 3599 are reserved for TS 29.468.				
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 29,343 3606 Allowed-Suffixes-Number Unsigned32 32] 3607 Monitor-Target Grouped 3608 ProSe-Code-Suffix-Mask Grouped 3609 Suffix-Ode OctetString 3610 Suffix-Mask OctetString 3610 Suffix-Mask 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 Unsigned32 ProSe-Allowed-PLMN Grouped 3703 ProSe-Allowed-PLMN Grouped Unsigned32 29,344 3705 UPR-Flags Unsigned32 Unsigned32 3707 ProSe-Indicator Unsigned32 Unsigned32 3707 ProSe-Indicator Unsigned32 Unsigned32 3707 ProSe-Indicator Unsigned32 Unsigned32 3708 Authorized-Discovery-Range Unsigned32 Unsigned32 Unsigned32 3708 Authorized-Discovery-Range Unsigned32 Unsigned32 3809 Reserved Unsigned32 3800 Reserved Unsigned32 3800 Reserved Unsigned32 3800 Reserved Unsigned32 3800 App-Layer-User-Id UTF8String 3800 MAC-Address UTF8String 29,345 3800 Operating-Channel Unsigned32 3800 MAC-Address UTF8String 3800 MAC-Address UTF8String 3810 ProSe-App-Gode UTF8String 3811 ProSe-App-Gode UTF8String 3811 ProSe-App-Gode UTF8String 3813 ProSe-App-Mask UTF8String 3813 ProSe-Discovery-Filter Grouped UTF8String 3813 ProSe-Discovery-Filter Grouped UTF8String 3813 ProSe-Discovery-Filter Grouped UTF8String 3813 ProSe-Discovery-Filter Grouped UTF8String UTF8Stri			Unsigned32	
3601 Target-App-Layer-User-Id			LITESString	
Section ProSe-Function-ID				
3603 ProSe-Request-Type				
3604 PDUID				
3605 Application-Data UTF8String 29,343 3606 Allowed-Suffixes-Number Unsigned32 3607 Monitor-Target Grouped 3608 ProSe-Code-Suffix-Mask Grouped Grouped 3609 Suffix-Code OctetString 3610 Suffix-Mask OctetString 3611 Banned-User-Target Grouped Grouped 3612 Metadata-Indicator Unsigned32 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 29.344 3705 UPR-Flags Unsigned32 3706 PNR-Flags Unsigned32 3707 ProSe-Initial-Location-Information Grouped 3708 Authorized-Discovery-Range Unsigned32 3800 Reserved 3800 Reserved Unsigned32 3801 App-Layer-User-Id UTF8String 3802 Assistance-info Grouped 3803 Assistance-info Grouped 3803 Assistance-info Grouped 3808 Discovery-Type Unsigned32 3805 Fitter-Id OctetString 3806 MAC-Address UTF8String 3807 Match-Report Grouped 3808 ProSe-App-Code UTF8String 3811 ProSe-App-Mask UTF8String 3811 ProSe-App-Mask UTF8String 3811 ProSe-App-Mask UTF8String 3813 ProSe-Discovery-Filter Grouped 3811 ProSe-Discovery-Filter Grouped 3812 ProSe-Discovery-Filter Grouped 3812 ProSe-Discovery-Filter Grouped 3812 Pr				
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3812ProSe-App-MaskUTF8String3813ProSe-Discovery-FilterGrouped				
		ProSe-App-Mask		
3814 PRR-Flags Unsigned32				
	3814	PRR-Flags	Unsigned32	

1815 ProSe-Validity-Timer
3819 WiFi-P2P-Assistance-Info
Satistic Wich-P2P-Assistance-Info Grouped
3821 WLAN-Laistance-Info
WLAN-Link-Layer-Id-List Grouped
3822 WLAN-Link-Layer-Id-Lisit Grouped 3823 Location-Update-Trigger Grouped 3826 Change-Of-Area-Type Grouped 3826 Change-Of-Area-Type Grouped 3827 Report-Cardinality Enumerated 3828 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-Announce Unsigned32 3833 Validity-Time-Announce Unsigned32 3833 Validity-Time-Communication Unsigned32 3834 Validity-Time-Communication Unsigned32 3836 MIC Grouped 3837 UTC-based-Counter Unsigned32 3838 ProSe-App-Code-Info Grouped 3839 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-PDUID UTF8String 3845 Target-PDUID UTF8String 3846 ProSe-Restricted-Code OctetString 3847 ProSe-Restricted-Code OctetString 3848 Beginning-Suffix OctetString 3849 ProSe-Restricted-Code OctetString 3849 ProSe-Restricted-Code OctetString 3850 Discovery-Entry-ID Unsigned32 3851 Match-Timestamp Time 3852 PMR-Plags Unsigned32 3853 ProSe-Application-Metadata UTF8String 3854 Discovery-Auth-Response Grouped 3855 Banned-RPAUID UTF8String 3856 Match-Report-Info Grouped 3857 Match-Report-Info Grouped 3858 Banned-RPAUID UTF8String 3869 Banned-POUID OctetString 3860 Ocde-Sending-Security-Material Grouped 3861 OctetString 3862 OctetString 3863 Outfelstring 3864 OctetString 3865 OctetString 3866 OctetString 3867 OctetString 3868 OctetString 3868 OctetString 3869 OctetString 3860 OctetString 3860 OctetString 3860 OctetString
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3824 Location-Update-Trigger
3824 Location-Update-Event-Type
3825 Change-Of-Area-Type Grouped
3826 Location-Update-Event-Trigger
Sa27 Report-Cardinality
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 3833 Validity-Time-Communication Unsigned32 3836 Validity-Time-Communication Unsigned32 3836 MIC Grouped Grouped
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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-Match-Refresh-Timer Unsigned32 3840 App-Identifier Grouped 3841 OS-ID OctetString 3842 OS-App-ID UTF8String 3843 Requesting-RPAUID UTF8String 3844 Rarget-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 3855 Discovery-Auth-Request Grouped 3
3833 Validity-Time-Monitor
3834 Validity-Time-Communication Unsigned32 3835 ProSe-App-Code-Info Grouped Group
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-PPAUID 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 3849 Ending-Suffix OctetString 3850 Discovery-Entry-ID Unsigned32 3851 Match-Timestamp Time 3852 PMR-Flags Unsigned32 3853 ProSe-Application-Metadata UTF8Strin
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3861Code-Sending-Security-MaterialGrouped3862DUSKOctetString3863DUIKOctetString3864DUCKOctetString3865MIC-Check-indicatorUnsigned32
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3863DUIKOctetString3864DUCKOctetString3865MIC-Check-indicatorUnsigned32
3864DUCKOctetString3865MIC-Check-indicatorUnsigned32
3865 MIC-Check-indicator Unsigned32
3866 Encrypted-Bitmask
3867 ProSe-App-Code-Suffix-Range OctetString
3868 PC5-tech OctetString
Note: The AVP codes from 3869 to 3899 are reserved for TS 29.345.
3900 Reserved
3901 Enhanced-Diagnostics Grouped
3902 Inter-UE-Transfer Enumerated
3903 TWAG-Address Address
3904 Announcement-Information Grouped 32
3906 Announcement-Order Unsigned32
3907 Variable-Part Grouped
3908 Variable-Part-Order Unsigned32
3909 Variable-Part-Type Unsigned32

	N		1
3910	Variable-Part-Value	UTF8String	
3911	Time-Indicator	Unsigned32	
3912	Quota-Indicator	Enumerated	
3913	Play-Alternative	Enumerated	
3914	Language	UTF8String	
3915	Privacy-Indicator	Enumerated	
3916	Called-Identity	UTF8String	
3917	Called-Identity-Change	Grouped	
3918	UWAN-User-Location-Info	Grouped	
3919	Monitoring-Event-Configuration-Activity	Integer32	
3920	Monitoring-Event-Report-Data	Grouped	
3921	Monitoring-Event-Information	Grouped	
3922	Monitoring-Event-Functionality	Integer32	
3923	Monitoring-Event-Report-Number	Unsigned32	
3924	Cellular-Network-Information	OctetString	
3925	Related-Change-Condition-Information	Grouped	
3926	Related-Trigger	Grouped	
3927	CPDT-Information	Grouped	-
3928	NIDD-Submission		-
	Serving-Node-Identity	Grouped DiameterIdentity	\dashv
3929			4
3930	CP-CloT-EPS-Optimisation-Indicator	Enumerated	-
3931	SGi-PtP-Tunnelling-Method	Enumerated	4
3932	UNI-PDU-CP-Only-Flag	Enumerated	4
3933	APN-Rate-Control	Grouped	4
3934	APN-Rate-Control-Downlink	Grouped	_
3935	APN-Rate-Control-Uplink	Grouped	
3936	Additional-Exception-Reports	Enumerated	
3937	Rate-Control-Max-Message-Size	Unsigned32	
3938	Rate-Control-Max-Rate	Unsigned32	
3939	Rate-Control-Time-Unit	Unsigned32	
3940	SCS-AS-Address	Grouped	
3941	SCS-Address	Address	
3942	SCS-Realm	DiameterIdentity	
	The AVP codes from 3943 to 3999 are reserved for TS 32.299.		
4000	Aggregated-Congestion-Info	Grouped	
4001	Aggregated-RUCI-Report	Grouped	
4002	Congestion-Level-Definition	Grouped	
4003	Congestion-Level-Range	Unsigned32	
4004	Congestion-Level-Set-Id	Unsigned32	
4005	Congestion-Level-Value	Unsigned32	
4006	Congestion-Level-value Congestion-Location-Id	Grouped	29.217
4007	Conditional-Restriction	Unsigned32	_
4007		OctetString	[35]
	eNodeB-Id		_
4009	IMSI-List	OctetString	_
4010	RCAF-Id	DiameterIdentity	_
4011	Reporting-Restriction	Unsigned32	
4012	RUCI-Action	Unsigned32	_
4013	Extended-eNodeB-ID	OctetString	
	The AVP codes from 4014 to 4099 are reserved for TS 29.217.		1
4101	Network-Congestion-Area-Report	Grouped	29.153
4102	Ns-Request-Type	Unsigned32	[37]
	The AVP codes from 4103 to 4199 are reserved for TS 29.153.	,	
4201	Network-Area-Info-List	OctetString	_
4202	Reference-Id	OctetString	
4203	Transfer-Request-Type	Unsigned32	
4204	Time-Window	Grouped	
4205	Transfer-End-Time	Time	
4206	Transfer-Start-Time	Time	20.454
4207	Transfer-Policy	Grouped	29.154
4208	Transfer-Policy-Id	Unsigned32	[38]
4209	Number-Of-UEs	Unsigned32	7
4210	Access-Network-Reports	Grouped	1
		Grouped	╡
4211	TEVENT-CONTIQUIATION	(3)())))(+()	
4211 4212	Event-Configuration Event-Configuration-State		-
4211 4212 4213	Event-Configuration Event-Configuration-State Event-Configuration-Status	Unsigned32 Grouped	<u>-</u>

4214	Event-Reporting-Results	Unsigned32	
4215	Event-Reports Event-Reports	Grouped	
4216	Extended-SCEF-Reference-ID	Unsigned64	
	The AVP codes from 4217 to 4299 are reserved for TS 29.154.	Onsigned04	
4300	Communication-Failure-Information	Grouped	
4301	Cause-Type	Unsigned32	
4301	S1AP-Cause	Unsigned32	
4302	RANAP-Cause	Unsigned32	
4303	GMM-Cause	Unsigned32	
	SM-Cause	Unsigned32	
4305			
4306	Number-of-UE-Per-Location-Configuration	Grouped	
4307	Number-of-UE-Per-Location-Report	Grouped	
4308	UE-Count	Unsigned32	
4309	BSSGP-Cause	Unsigned32	
4310	Serving-PLMN-Rate-Control	Grouped	
4311	Uplink-Rate-Limit	Unsigned32	
4312	Downlink-Rate-Limit	Unsigned32	29.128
4313	Extended-PCO	OctetString	[36]
4314	Connection-Action	Unsigned32	
4315	Non-IP-Data	OctetString	
4316	SCEF-Wait-Time	Time	
4317	CMR-Flags	Unsigned32	
4318	RRC-Cause-Counter	Grouped	
4319	Counter-Value	Unsigned32	
4320	RRC-Counter-Timestamp	Time	
4321	TDA-Flags	Unsigned32	
4322	Idle-Status-Indication	Grouped	
4323	Idle-Status-Timestamp	Time	
4324	Active-Time	Unsigned32	
4325	Reachability-Cause	Unsigned32	
Note: T	The AVP codes from 4326 to 4399 are reserved for TS 29.128.		
4400	Charging-Per-IP-CAN-Session-Indicator	Enumerated	
4401	Access-Network-Info-Change	Enumerated	
4402	Discoveree-UE-HPLMN-Identifier	UTF8String	
4403	Discoveree-UE-VPLMN-Identifier	UTF8String	
4404	Discoverer-UE-HPLMN-Identifier	UTF8String	
4405	Discoverer-UE-VPLMN-Identifier	UTF8String	
4406	3GPP-PS-Data-Off-Status	Enumerated	32.299
4407	Unused-Quota-Timer	Unsigned32	[5]
4408	Announcing-PLMN-ID	UTF8String	[0]
4409	ProSe-UE-to-Network-Relay-UE-ID	OctetString	
4410	ProSe-Target-Layer-2-ID	OctetString	
4411	Relay-IP-address	Address	
4412	Target-IP-Address	Address	
4413	FE-Identifier-List	UTF8String	
	The AVP codes from 4414 to 4499 are reserved for TS 32.299	OTFOSHING	
4500	MCPTT-ID	I ITEOC+rin ~	<u> </u>
		UTF8String Grouped	
4501	Data-Identification	Grouped	
4502	Data-Identification-Prefix	Unsigned32	
4503	Data-Identification-Flags	Unsigned64	
4504	DPR-Flags	Unsigned32	
4505	DPA-Flags	Unsigned32	
4506	DUR-Flags	Unsigned32	29.283
4507	DUA-Flags	Unsigned32	[39]
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: T	The AVP codes from 4515 to 4599 are reserved for TS 29.283.		
4600	V2X-PC5-Allowed-PLMN	Grouped	20, 200
4601	V2X-Update-Flags	Unsigned32	29.388
4602	V2X-Notify-Flags	Unsigned32	[40]
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4603	PLMN-Allowed-PC5-RATs Grouped					
4604	PC5-RAT-Type	Enumerated				
Note: T	he AVP codes from 4605 to 4799 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: T	he AVP codes from 4703 to 4799 are reserved for TS and TS 29.	389.				
			29.561			
			[42]			
Note: T	he AVP codes from 4800 to 4999 are reserved for TS and TS 29.	561.				

8 Experimental result codes

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

8.1 3GPP specific result codes

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

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

8.1.1 Informational

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

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

8.1.2 Success

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

Table 8.1.2: 3GPP specific Success result codes

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

8.1.3 Transient Failures

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

Table 8.1.3: 3GPP specific Transient Failure result codes

Experimental Result 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.	
	DIAMETER_AUTHENTICATION_DATA_UNAVAILABLE	29.272 [21]
	DIAMETER_ERROR_CAMEL_SUBSCRIPTION_PRESENT	29.272 [21]
	ntal Result Codes from 4182 to 4200 are reserved for the TS 29.272.	
	DIAMETER_ERROR_ABSENT_USER	29.173 [25]
Note: The Experime	ntal Result Codes from 4202 to 4220 are reserved for the TS 29.173.	
4221	DIAMETER_ERROR_UNREACHABLE_USER	
4222	DIAMETER_ERROR_SUSPENDED_USER	
4223	DIAMETER_ERROR_DETACHED_USER	29.172 [24]
4224	DIAMETER_ERROR_POSITIONING_DENIED	29.172 [24]
4225	DIAMETER_ERROR_POSITIONING_FAILED	
4226	DIAMETER_ERROR_UNKNOWN_UNREACHABLE LCS_CLIENT	
	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

Experimenta I 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	erimental Result Codes from 5013 to 5020 are reserved for the	
		32.299 [5]
	erimental Result Codes from 5021 to 5040 are reserved for the	TS 32.299.
5041	DIAMETER_ERROR_USER_NO_WLAN_SUBSCRIPTION	
5042	DIAMETER_ERROR_W-APN_UNUSED_BY_USER	
5043	DIAMETER_ERROR_NO_ACCESS_INDEPENDENT_SUBS CRIPTION	29.234 [6]
5044 5045	DIAMETER_ERROR_USER_NO_W-APN_SUBSCRIPTION DIAMETER_ERROR_UNSUITABLE_NETWORK	
	erimental Result Codes from 5046 to 5060 are reserved for the	TS 29.234.
5061	INVALID_SERVICE_INFORMATION	
5062	FILTER_RESTRICTIONS	
5063	REQUESTED_SERVICE_NOT_AUTHORIZED	29.209 [8],
5064	DUPLICATED_AF_SESSION	29.211 [17] ,
5065	IP-CAN_SESSION_NOT_AVAILABLE	29.214 [18]
5066	UNAUTHORIZED_NON_EMERGENCY_SESSION	
5067	UNAUTHORIZED_SPONSORED_DATA_CONNECTIVITY	
	TEMPORARY_NETWORK_FAILURE rimental Result Codes from 5069 to 5080 are reserved for TS 2 TS 29.214.	29.209, TS 29.211
5100	DIAMETER ERROR USER DATA NOT RECOGNIZED	
5100	DIAMETER_ERROR_OPERATION_NOT_ALLOWED	
5102	DIAMETER_ERROR_USER_DATA_CANNOT_BE_READ	
5103	DIAMETER_ERROR_USER_DATA_CANNOT_BE_MODIFIED	
5104	DIAMETER_ERROR_USER_DATA_CANNOT_BE_NOTIFIED	29.329 [4]
5105	DIAMETER_ERROR_TRANSPARENT_DATA OUT_OF_SYNC	
5106	DIAMETER_ERROR_SUBS_DATA_ABSENT	
5107	DIAMETER_ERROR_NO_SUBSCRIPTION_TO_DATA	
5108	DIAMETER_ERROR_DSAI_NOT_AVAILABLE	
Note: The Expe	rimental Result Codes from 5109 to 5119 are reserved for the	TS 29.329.
5120	DIAMETER_ERROR_START_INDICATION	
5121	DIAMETER_ERROR_STOP_INDICATION	
5122	DIAMETER_ERROR_UNKNOWN_MBMS_BEARER_SERVI CE	29.061 [13]
5123	DIAMETER_ERROR_SERVICE_AREA	
	erimental Result Codes from 5124 to 5139 are reserved for the	IS 29.061.
5140	DIAMETER_ERROR_INITIAL_PARAMETERS	
5141	DIAMETER_ERROR_TRIGGER_EVENT	
5142	DIAMETER_PCC_RULE_EVENT	
5143	DIAMETER_ERROR_BEARER_NOT_AUTHORIZED	
5144	DIAMETER_ERROR_TRAFFIC_MAPPING_INFO_REJECT ED	29.212 [19]
5145	DIAMETER_QOS_RULE_EVENT	
5146	reserved	
5147	DIAMETER_ERROR_CONFLICTING_REQUEST	
5148	DIAMETER_ADC_RULE_EVENT	
5149	DIAMETER_ERROR_NBIFOM_NOT_AUTHORIZED	

Note: The Exp	perimental Result Codes from 5150 to 5159 are reserved for the	TS 29 212
5401	DIAMETER_ERROR_IMPI_UNKNOWN	10 29.212.
5402	DIAMETER_ERROR_NOT_AUTHORIZED	-
5403	DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALI	29.109 [7
3403	D DIAMETER_ERROR_TRANSACTION_IDENTIFIER_INVALI	
Note: The Exp	perimental Result Codes from 5404 to 5419 are reserved for the	TS 29.109.
5420	DIAMETER_ERROR_UNKNOWN_EPS_SUBSCRIPTION	
5421	DIAMETER_ERROR_RAT_NOT_ALLOWED	29.272 [21]
5422	DIAMETER ERROR EQUIPMENT UNKNOWN	
5423	DIAMETER_ERROR_UNKNOWN_SERVING_NODE	
	perimental Result Codes from 5424 to 5449 are reserved for the	TS 29 272
5450	DIAMETER ERROR USER NO NON 3GPP SUBSCRIPT	10 20.272.
0 -1 00	ION	
5451	DIAMETER_ERROR_USER_NO_APN_SUBSCRIPTION	
5452	DIAMETER_ERROR_RAT_TYPE_NOT_ALLOWED	29.273 [20]
5453	DIAMETER_ERROR_LATE_OVERLAPPING_REQUEST	-
5454	DIAMETER_ERROR_TIMED_OUT_REQUEST	-
		TC 20 272
	perimental Result Codes from 5455 to 5469 are reserved for the	15 29.273.
5470	DIAMETER_ERROR_SUBSESSION	20 245 [22]
5471	DIAMETER_ERROR_ONGOING_SESSION_ESTABLISHM ENT	29.215 [22]
Note: The Exp	perimental Result Codes from 5472 to 5489 are reserved for the	TS 29.215
5490	DIAMETER_ERROR_UNAUTHORIZED_REQUESTING_NE	
0-700	TWORK	29.173 [25]
Note: The Eve	perimental Result Codes from 5491 to 5509 are reserved for the	I TS 29 173
5510	DIAMETER ERROR UNAUTHORIZED REQUESTING EN	10 29.173.
3310	TITY	
5511	DIAMETER ERROR UNAUTHORIZED SERVICE	-
5512	DIAMETER_ERROR_GINAOTHORIZED_SERVICE DIAMETER_ERROR_REQUESTED_RANGE_IS_NOT	-
5512		
<i>EE</i> 40	ALLOWED	1001 200 00
5513	DIAMETER_ERROR_CONFIGURATION_EVENT_STORAG	29.336 [28]
5544	E_NOT_SUCCESSFUL	
5514	DIAMETER_ERROR_CONFIGURATION_EVENT_NON_EXI	
5545	STANT	
5515	DIAMETER_ERROR_SCEF_REFERENCE_ID_UNKNOWN	
5516	DIAMETER_ERROR_UNAUTHORIZED_MTC_PROVIDER	TO 00 000
	perimental Result Codes from 5517 to 5529 are reserved for the	15 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_PENDI	
	NG	
Note: The Exp	perimental Result Codes from 5536 to 5549 are reserved for the	TS 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	-
5558	DIAMETER_ERROR_MWD_LIST_FULL	TO 00 000
	perimental Result Codes from 5559 to 5569 are reserved for the	
5570	DIAMETER_ERROR_UNKNOWN_POLICY_COUNTERS	29.219 [26]
	Experimental Result Codes from 5571 to 5589 are reserved for	the TS 29.219.
5590	DIAMETER_ERROR_ORIGIN_ALUID_UNKNOWN	_
5591	DIAMETER_ERROR_TARGET_ALUID_UNKNOWN	
5592	DIAMETER_ERROR_PFID_UNKNOWN	
5593	DIAMETER_ERROR_APP_REGISTER_REJECT	10 2 42 1221
5594	DIAMETER_ERROR_PROSE_MAP_REQUEST_DISALLO WED	29.343 [32]
5595	DIAMETER_ERROR_MAP_REQUEST_REJECT	1
5596	DIAMETER ERROR REQUESTING RPAUID UNKNOWN	1
3000		1

5597	DIAMETER_ERROR_UNKNOWN_OR_INVALID_TARGET_ SET	
5598	DIAMETER ERROR MISSING APPLICATION DATA	
5599	DIAMETER_ERROR_AUTHORIZATION_REJECT	
5600	DIAMETER_ERROR_DISCOVERY_NOT_PERMITTED	
5601	DIAMETER_ERROR_TARGET_RPAUID_UNKNOWN	
5602	DIAMETER_ERROR_INVALID_APPLICATION_DATA	
	erimental Result Codes from 5603 to 5609 are reserved for the	LS 50 343
5610	DIAMETER ERROR UNKNOWN PROSE SUBSCRIPTIO	10 29.040.
3010	N	
5611	DIAMETER_ERROR_PROSE_NOT_ALLOWED	29.344 [33]
5612	DIAMETER_ERROR_UE_LOCATION_UNKNOWN	
	erimental Result Codes from 5613 to 5629 are reserved for the	TS 29.344.
5630	DIAMETER ERROR NO ASSOCIATED DISCOVERY FIL	
	TER	
5631	DIAMETER_ERROR_ANNOUNCING_UNAUTHORIZED_IN	
	_ PLMN	
5632	DIAMETER_ERROR_INVALID_APPLICATION_CODE	
5633	DIAMETER_ERROR_PROXIMITY_UNAUTHORIZED	
5634	DIAMETER_ERROR_PROXIMITY_REJECTED	
5635	DIAMETER_ERROR_NO_PROXIMITY_REQUEST	00 0 45 50 43
5636	DIAMETER_ERROR_UNAUTHORIZED_SERVICE_IN_THI	29.345 [34]
	S_PLMN	
5637	DIAMETER_ERROR_PROXIMITY_CANCELLED	
5638	DIAMETER_ERROR_INVALID_TARGET_PDUID	
5639	DIAMETER_ERROR_INVALID_TARGET_RPAUID	
5640	DIAMETER_ERROR_NO_ASSOCIATED_RESTRICTED_C	
	ODE	
5641	DIAMETER_ERROR_INVALID_DISCOVERY_TYPE	
Note: The Expe	erimental Result Codes from 5642 to 5649 are reserved for the	ΓS 29.345.
5650	DIAMETER_ERROR_REQUESTED_LOCATION_NOT_SER	
	VED	
5651	DIAMETER_ERROR_INVALID_EPS_BEARER	
5652	DIAMETER_ERROR_NIDD_CONFIGURATION_NOT_AVAI LABLE	29.128 [36]
5653	DIAMETER_ERROR_USER_TEMPORARILY_UNREACHA	
3033	BLE	
Note: The Expe	erimental Result Codes from 5654 to 5669 are reserved for the	ΓS 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	ΓS 29.128.
5690	DIAMETER_ERROR_UNKNOWN_V2X_SUBSCRIPTION	29.388 [40]
5691	DIAMETER_ERROR_V2X_NOT_ALLOWED	
Note: The Expe	erimental Result Codes from 5692 to 5709 are reserved for the	ΓS 29.388.

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

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

A.1 Application identifiers

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

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

A.2 Command codes

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

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

A.3 AVP codes

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

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

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

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

A.4 Result codes

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

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

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

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

Re-using of the existing result codes is recommended.

Annex B (informative): Change history

2004-06 CN#24	Date	TSG #	TSG Doc.	CR	Re v	Subject/Comment	New
0,040401 0,040401 0,0040	2004-06	CN#24				Version 2.0.0 presented for information and approval	6.0.0
0.040401	2004-09	CN#25		001		Correction of Charging application reference	6.1.0
Control Cont	2004-09	CN#25		002		Correction of the Application-Id code	6.1.0
Control Cont	2004-09	CN#25		003		Removal of User Data Request Type AVP	6.1.0
0,040,579 007 1 Reservation of command code 310 6,20	2004-09	CN#25		004	1	Re-numbering of 3GPP specific AVP codes.	6.1.0
0.00450	2004-12	CN#26		006		Inclusion of missing Cx AVPs	6.2.0
Company Comp	2004-12	CN#26		007	1	Reservation of command code 310	6.2.0
0.40600 0.40600 0.40607 0.406079 0	2004-12	CN#26		009	1	Addition of Gmb interface	6.2.0
2004-12 CN#26 NP-	2004-12	CN#26		010	2		6.2.0
2005-03 CM#26 NP-	2004-12	CN#26	NP-	011			6.2.0
NP	2004-12	CN#26	NP-	012		Addition of Gx interface	6.2.0
NP- 050039	2005-03	CN#27	NP-	040	1	WLAN Diameter AVP and result codes	6.3.0
NP- 046 Allocations for Gmb interface 050039 NP- 046 Allocations for MMS, MM10 Interface 050039 NP- 050039 O50050088 O O50088 O O5009			NP-	043		Allocations for Gx interface	
NP-			NP-	045		Allocations for Gmb interface	
CT#28			NP-	046		Allocations for MMS, MM10 Interface	
CP-	2005-06	CT#28	CP-			Gx interface allocation correction	6.4.0
CT#29			CP-	_	1	Addition of Maximum-Number-Accesses AVP	
CP- 005 050310 3 Error code cleanup 005 050310 4 CP- 005 050310 4 CP- 005 050310 6 CP- 005 050310 6 CP- 005 050310 6 CP- 005 050310 5 CP- 005 050317 5 CP- 005 050317 5 CP- 005 050317 5 Addition of GUSS timestamp AVP 7.0.0	2005-09	CT#29	CP-		1	Private identities on the Cx	6.5.0
CP- 005 050310 4			CP-	005		Addition of Pr reference point to TS 29.230	
CP- O05 O50310 6 Addition of Rx ref. point and renaming of Experimental Result Codes O50317 5 Addition of GUSS timestamp AVP 7.0.0			CP-	005		Error code cleanup	
CT#29			CP-	005		Addition of Rx ref. point and renaming of Experimental Result Codes	
CT#30	2005-09	CT#29	CP-	005		Addition of GUSS timestamp AVP	7.0.0
CP-	2005-12	CT#30	CP-	005		Addition of GBA-Type AVP	7.1.0
CP- 006 050612 5 Management of Sh subscriptions			CP-	006		Additional Gmb AVP Allocation	
CP-			CP-	006		Reservation of AVP codes for 32.299	
CT#31			CP-	006		Management of Sh subscriptions	
CP-	2006-03	CT#31	CP-	006		Adding data type of some of WLAN-related AVPs	7.2.0
CP- 000 New error indications for the Sh-Subs-Notif procedure			CP-			User-Data in the response to Sh-Subs-Notif	
2006-06 CT#32 CP-			CP-		1	New error indications for the Sh-Subs-Notif procedure	
2006-09 CT#33 CP- 007 3 New AVP Code 7.4.0 CP- 060417 7 Errors to be sent in response to Sh-Notif 0 CP- 008 Definition of specific Diameter codes for DSAI	2006-06	CT#32	CP-	007		S-CSCF reselection removal	7.3.0
CP- 008 Errors to be sent in response to Sh-Notif 060417 0 CP- 008 Definition of specific Diameter codes for DSAI	2006-09	CT#33	CP-	007	3	New AVP Code	7.4.0
CP- 008 Definition of specific Diameter codes for DSAI			CP-	800		Errors to be sent in response to Sh-Notif	
						Definition of specific Diameter codes for DSAI	

2006-12	CT#34	CP-	008	1	Optimization of handling of Wildcarded PSIs	7.5.0
	ļ	060566 CP-	5 008		Addition of Diameter Error Code for Emergency Purposes	_
		060562	6			
		CP- 060555	008 7		Allocation of new AVP codes for Gmb	
		CP-	008		AVP code allocations for Rf and Ro interfaces	
		060555 CP-	9 009		Allocation of Success Result Code Range for Gi Interface	
2007.02	CT#25	060566	1			7.00
2007-03	CT#35	CP- 070020	009 3		C3 requested addition of new AVP code values to 3GPP TS 29.230	7.6.0
		CP- 070020	009 3		Allocation of new AVP code for DSAI-Tag AVP	
		CP-	009		Allocation of Experimental-Result-Code AVP for Gi Interface	
2007-06	CT#36	070020 CP-	3 009		Diameter application ID for the Rel-7 Rx interface	7.7.0
2007 00	01//00	070318	6			
		CP- 070312	009 8		Experimental-Result-Codes for Gmb interface	
		CP-	010		Correction of Diameter AVP code allocation	
2007-09	CT#37	070312 CP-	010		Application ID for Gx protocol	7.8.0
2007.40	CT#20	070527 CP-	2 010		AVP code reservation for 32.299 in Rel-7	7.0.0
2007-12	CT#38	070743	4			7.9.0
			010 5		Allocation of 3GPP specific AVP codes and Experimental Result Codes for Gx protocol	
2007-12	CT#38	CP-	010	4	AVP assignments to support SIP Digest Authentication	8.0.0
		070755	010		AVP code reservation for 32.299 in Rel-8	
			3			
2008-03	CT#39	CP- 080015	010 9		Correction of reference to TS 29.140	8.1.0
		CP-	011		AVP code reservation for TS 32.299 in Rel-8	
		080019 CP-	010		Wildcarded Public User Identities	
		080019 CP-	7 011	1	Correction on AVP code allocation reservation for TS 32.299 in Rel-7	
		080191	2			
		CP- 080204	011 3	1	Correction on AVP code allocation reservation for TS 32.299	
2008-06	CT#40	CP-	011	1	A new Diameter Permanent Failure Code for Gx	8.2.0
2008-09	CT#41	080267 CP-	011		Emergency Public User Identity Removal	8.3.0
2008.00	CT#41	080456 CP-	9 012	1	Support of "Loose-Route" indication from HSS	_
2008-09	C1#41	080460	1	ľ		
2008-09	CT#41	CP- 080460	012	1	STaMIP Application Id	
2008-09	CT#41	CP-	012		Cx Impacts of IMS Restoration Procedures (New AVP Codes Assignment)	
2008-09	CT#41	080463 CP-	3 012		New AVP Code Assignment for Forking Service Restoration	8.3.0
		080463	4			
2008-12	CT#42	CP- 080691	012 7	2	Diameter Protocol Codes Assignments for S6a/S6d/S13	8.4.0
2008-12	CT#42	CP-	012	1	Diameter code assignments for 3GPP TS 29.273	8.4.0
2009-03	CT#43	080691 CP-	013	1	Update for ReadyForSM	8.5.0
2009-03	CT#43	090044 CP-	0 013	1	Handling LCS Subscription Data	8.5.0
		090044	1	<u>'</u>	·	
2009-03	CT#43	CP- 090026	013 2		Update for Restoration	8.5.0
2009-03	CT#43	CP-	013		Applds for Gxx and S9	8.5.0
2009-03	CT#43	090024 CP-	3 013	2	Appld and command code for Zpn	8.5.0
		090033	4			
2009-03	CT#43	CP- 090024	013 7	1	AVP codes for S9 protocol	8.5.0
2009-03	CT#43	CP- 090024	013 8	1	Diameter AVP Code allocation	8.5.0
2009-03	CT#43	CP-	014	1	Location of Permanent Failure result code range for the S9 application	8.5.0
		090024	0			

2009-03	CT#43	CP- 090024	014 1		AVPs for TS 29.273	8.5.0
2009-03	CT#43	CP-	014	1	Error code allocation for authentication failure	8.5.0
009-06	CT#44	090024 CP-	012	4	Update of the AVP Codes	8.6.0
		090299 CP-	9 014		AVP code reservation for TS 32.299	
		090299 CP-	3 014		Diameter Command Codes for S6a/S6d/S13/S13'	
		090299	5			
			014 6		Removal of Requesting Node Type from AIR	
		CP- 090299	014 7		S6b Application ID	
009-09	CT#45	CP- 090530	014 9		Allocation of Experimental-Result-Codes for S9 protocol	8.7.0
		CP-	015		AVP code allocation for TS 29.212	
		090530 CP-	2 015		Update of the AVP type for the User-Id	
		090531 CP-	0 015		Trace Depth per session	
	OT#45	090531	3		, ,	0.00
:009-09	CT#45	CP- 090557	014 8		AVP code range for charging	9.0.0
2009-12	CT#46	CP- 090800	015 4	1	ICS-Flag	9.1.0
		CP- 091032	015 6		From GMLC-Address to GMLC-Number	
		031032	016		Session-Priority AVP	7
			0 016	2	Introduction of SLh application related AVPs and Experimental Result codes	
			3 016		Missing AVP error codes	-
		CP-	6 016	1	Introduction of SLg application related AVPs and Application Identifier	-
010-03	CT#47	090797 CP-	7 015	1	Wildcarded Public Identity	9.2.0
.010-03	C1#47	100031	8			9.2.0
		CP- 100034	016 8	1	Correction on AVP code allocation reservation for TS 32.299 in Rel-9	
		CP- 100046	016 9	1	AVP code allocation for 29.172	
		CP- 100036	017		GPL_U support in TS 29.109	
		CP-	017		Error codes in 29.172 for SLg	
		100046 CP-	3 017	1	AVPs in 29.272 for TADS support	-
		100048 CP-	4 017		Error codes in 29.272 for Unknown MME	
		100040 CP-	5 017	4	EPS Subcsriber State and Location Information Request	
		100236	6	_		4
		CP- 100033	018 0		One time notification AVP allocation	
		CP- 100046	018 1		Addition of the LCS-QoS-Class attribute value	
		CP- 100175	018 2		Introduction of the LCS-Capabilities-Sets AVP in SLh interface	
010-06	CT#48	CP-	018	1	AVP Codes for PCC	9.3.0
		100263	8 018		EPS state and location retrieval	-
		CP-	3 018		SGmb Application ID	-
		100287 CP-	6	1	New APVs in S6a protocol	
040.00	CT#40	100277	0		· ·	0.40
2010-09	CT#49	CP- 100463	019 7	1	Addition of Diameter codes and identifiers for the SLg and SLh interfaces	9.4.0
		CP- 100464	019 6		AVP Codes Allocation for PCC	
010-09	CT#49	CP- 100465	019 3	1	SIPTO Permission Indicator	10.0.0
		CP-	019	2	Location data including only serving node address	-

		CP-	019	1	AVP for Update-Eff feature	
2010-12	CT#50	100466 CP-	9 020		Enhanced SRVCC Subscriber Data	10.1.0
		100699 CP-	5 020	1	Allocate codes for AVPs on eMPS	
		100687 CP-	1 020	1	Allocate codes for AVPs on LIPA	
		100683 CP-	0 020	1	Periodic TAU/RAU timer in HSS subscription	
		100688	6 020	1	·	
		CP- 100846	3	'	S6a Error Diagnostic	
2011-03	CT#51	CP- 110051	021 2		PDP-Address correction	10.2.0
		CP- 110054	021 5		Essential correction on the value type of the ELP Application AVPs	
		CP- 110087	020	2	Minimization of Drive Tests (MDT)	
		CP-	020	1	Relay Node Indicator AVPs	
2011-06	CT#52	110088 CP-	9 021	2	Handling of RTR for Emergency Registration	10.3.0
		110349 CP-	9 023	1	Add AVPs from QSPEC cleanup	
		110347 CP-	1 022		MIPv4 security parameters on the STa and S6b interfaces	
		110359 CP-	6 021		MDT user consent	
		110380	6			
		CP- 110370	022 3		AVP Code Allocation for Pre-paging	
		CP- 110375	022 7	1	PUR-Flags AVP	
2011-09	CT#53	CP- 110559	023 6	1	AVP code alignment with 29.212	10.4.0
		CP-	023	1	AVP code alignment with 32.299	
		110555 CP-	9 024	1	AVP code alignment with 29.214	
		110554 CP-	4 024		Experimental Result Code Alignment with 29.061	
		110552 CP-	9 025		Failure code and AVP code alignment with 29.212	
		110555 CP-	2	2	Priviledged sender	
2011.00	OT#50	110722	7			44.0.0
2011-09	CT#53	CP- 110584	023 4	1	Add vSRVCC updates to the Diameter AVP code table	11.0.0
		CP- 110579	024 0		AVP code alignment with 32.299	
		CP- 110555	025 3		AVP code reservation for 29.212	
2011-12	CT#54	CP-	025	1	SWx Restoration AVPs	11.1.0
		110812 CP-	025		Sy and Sd Application IDs	
		110812 CP-	9 026		New AVP codes for MBMS IP unicast encapsulation	
		110775 CP-	2 026		New AVP codes for MBMS IP multicast encapsulation	
		110775 CP-	5 027	1	MME-Realm AVP code allocation	
		110786	1	Ľ		
		CP- 110811	027 7		Equivalent PLMN CSG Subscription Request	
		CP- 110781	028 1	1	Restoration of Wildcarded-IMPU AVP	
2012-03	CT#55	CP- 120025	028 6	1	Codes Allocation for AVPs on Initial Attach	11.2.0
		CP-	028		New AVP codes for Absolute Time of MBMS Data Transfer over SGmb	
		120038 CP-	8 029	1	Allocating Diameter AVP codes for TS 29.219 and TS 29.212	
2012-06	CT#56	120038 CP-	1 028	5	Codes Allocation for AVPs on NPLI	11.3.0
		120240 CP-	7 029	1	Adding new Diameter AVPs to Diameter table to support Trusted WLAN	
		120238	4		Access feature	
		CP- 120225	029 6	1	Trust Relationship Indication	

İ	1	CP-	029	1	Corrections to reference titles	
		120251	7	'	Corrections to reference titles	
		CP-	029	1	Diameter Code Allocation for TS 29.219	
		120251 CP-	030	_	Network Name AVP codes	_
		120247	0			
		CP- 120219	030 4	-	Duplicated AVP names	
2012-09	CT#57	CP-	028	3	PS additional number allocation	11.4.0
		120481 CP-	9 029	4	SMS in MME/SGSN	_
		120473	3	4	SWS III WINE/SGSN	
		CP-	029	2	AAA Failure Recovery AVP codes	
		120461 CP-	9	_	Transport Access Type AVP for BBAI	
		120474	5			
		CP- 120480	030	1	Local Time Zone	
		CP-	030	-	Allocating Application Identifier and command code for Tsp interface	
		120472	8			4
		CP- 120472	030 9	-	Application Identifier, Command Codes and AVP range for S6m interface	
		CP-	031	1	GMLC-Name	
		120667	2 031	1	Reference list correction to align with the corrected TS 29.212 title	_
			3			
2012-12	CT#58	CP-	031	2	T4 device triggering via IMS	11.5.0
		120731 CP-	5 031	1	Codes and Identifier Allocation for T4 Specification	-
		120731	8		·	
		CP- 120731	032 4	-	AVP Code Allocation for 29.336	
		CP-	032	-	Diameter AVP code value allocation in TS 29.368	
		120731	9	2	Application Identifier Command Codes and AVD ander for CCd. CCc.	_
		CP- 120732	031 9	2	Application Identifier, Command Codes and AVP codes for SGd, S6c	
		CP-	032	1	AVP name modification in TS 32.299	
		120716 CP-	4 032	_	UE Time Zone AVP	\dashv
		120742	5			
		CP- 120741	032	1	Use of Flag instead of Enumerated AVPs	
		CP-	8 332	-	Use of Flag instead of Enumerated AVPs	
		120741				
		CP- 120743	330	-	PSI direct routing with restoration procedures	
		CP-	333	-	EPS LocationInformation Support	7
2012 02	CT#59	120743 CP-	033	1	Diameter error code for TS 29.219	11.6.0
2013-03	C1#59	130026	4	'	Diameter error code for 15 29.219	11.6.0
		CP-	033	-	MDT parameters	
2013-03	CT#59	130026 CP-	6 033	1	New AVPs for Lgd interface	12.0.0
2010 00	01//00	130156	7			12.0.0
		CP- 130030	034	-	Validity Time of Short Message	
2013-06	CT#60	CP-	036	1	Add new DER-S6b-flag AVP	12.1.0
		130288	2			
		CP- 130298	036 0	-	Failure Result Codes Allocation for TS 29.219	
		CP-	035	-	Diameter AVP codes for new TS 32.299 AVPs	7
		130292	8	4	Definition of CC Ctatus for Call Demises	_
		CP- 130279	035 4	1	Definition of SS Status for Call Barring	
		CP-	036	-	New SGs-MME-Identity AVP	
		130380 CP-	3 034	2	New AVPs for deferred MT-LR and periodic MO-LR TTTP procedures over	
		130291	8	_	Lgd interface	
		CP-	034	1	Application Port Identifier	
		130297 CP-	034	1	MTRR on Sh	
		130374	5			
		CP- 130295	034	-	Restoration Priority during SGW and PGW restoration procedures	
		CP-	034	1	SIPTO permission for Local Network enhancements	-
		130378	9			

2013-09	CT#61	CP- 130454	036 4	2	New MBMS flag for eMBMS restoration	12.2.0
		CP-	036	-	AVP code reservation for TS 32.299 Rel-12	1
		130461 CP-	6 036	-	Allocation of Diameter codes and identifiers for 29.212 and 29.215	
2013-09		130460	8	-	Vendor-specific command code for Trigger-Establishment-Request/Answer	12.2.1
2013-12	CT#62	CP- 130624	036	-	New AVP for optimized LCS procedure for combined MME/SGSN	12.3.0
		CP-	037	1	Adding E-SMLC provided Cell info and Cell Portion	1
		130631 CP- 130800	037	-	New AVPs for SMS for IMS UE without MSISDN in TS 29.338	1
		CP- 130600	037	1	Allocation of Diameter codes for 32.299	-
		CP- 130605	6 037 8	-	Allocation of Diameter codes for 29.212	7
		CP- 130639	038 0	-	SGSN CAMEL Subscription Indication	
2014-03	CT#63	CP- 140180	038	2	Protocol enhancements for the support of device replace procedure	12.4.0
		CP- 140035	038	-	New AVP for the support of combined MME/SGSN	7
		CP- 140023	038	1	Definition of WLAN-related AVPs	7
2014-06	CT#64	CP- 140211	038 5	1	Protocol enhancements to indicate support of device recall and replace by SMS-SC	12.5.0
		CP- 140251	040 2	1	AVP allocation for Error handling, MTC error diagnostic	1
		CP- 140257	039 1	1	SS-Status AVP Definition	1
		CP- 140252	039	-	Definition of AVPs for Network Location in TWLAN	7
		CP- 140236	039 9	-	TWAN-BSSID AVP re-naming	1
		CP- 140247	039 7	-	New AVPs for Trusted WLAN access	7
		CP- 140231	039	1	Adding Codes for 29.214	7
2014-09	CT#65	CP- 140515	040	1	T-GRUU restoration	12.6.0
		CP- 140517	040 4	1	MB2-C codes	
		CP- 140505	040 5	1	New AVPs for Trusted WLAN access	
		CP- 140506	040 6	1	P-CSCF Restoration indication	
		CP- 140516	040 7	2	Closing TS 29.234 and reused AVP in TS 29.273	
		CP- 140513	040 8	-	Identification of the HSS	1
2014-12	CT#66	CP-	040	1	Editorial: WLAN-offloadability AVP codes added as in CR C4-141648. New AVP for MBMS restoration	12.7.0
		140785	9 043	-	New Diagnostic-Info AVP for MBMS restoration	-
			0 041	1	WLCP key for WLCP signalling protection	$\frac{1}{2}$
			0 041	-	Reset-ID	-
			1 041	1	Code definitions for 32.299	-
			6 042	-	Removal of I-WLAN AVPs	-
			8 042	1	Reference correction	-
			9 043	-	Code allocation for 29.212	-
			3 041	-	MDT PLMN List	\dashv
			042	1	Codes Allocation for PC2 Protocol	-
			2 042	4	Codes Allocation for PC4a Protoco	-
			3			

			043	3	Allocation of values for Application ID, Command codes, AVP codes and]
			043	1	Experimental-Result codes used in the TS 29.345 Command Code and Error Code for ProSe Initial Location Information Retrieval	1
			042	-	Corrections of the type of some AVPs	1
			042	1	OFR-Flags AVP code	_
			6 042	1	P-CSCF Restoration mechanism new error	1
2015-03	CT#67	CP-	7 044	-	Renaming of Location-Type AVP	12.8.0
		150015	7 043	1	Location reporting in emergency 1xSRVCC	1
			043	-	AVP codes for GCSE MB2-C	_
			044	1	New AVPs and range of transient failure result codes in TS 29.214	-
			043	1	Allocation of code for Authorized-Discovery-Range AVP (TS 29.344)	-
			044	2	Location Update Trigger	1
			0 044	1	AVP codes allocation for Validity related AVPs for TS 29.345	1
			044	-	Allocation of codes for the Integrity Checks. Aspect AVPs	1
2015-03	CT#67	CP-	043	1	Diameter Application Identifier for Np protocol	13.0.0
2015-06	CT#68	150039 CP-	9 045	1	AVP code allocation for Match Refresh Timer AVP in TS 29.345	13.1.0
		150257 CP-	0 045	-	Wrong CR implementation of CR 0416r1	1
		150247 CP-	7 045	1	AVP code allocation for 32.299	1
		150249 CP-	9 045	1	AVP codes for Access Restriction Data per PLMN	<u> </u>
		150263 CP-	2 046	-	IP-SM-GW-Realm	<u> </u>
2015-09	CT#69	150372 CP-	1 046	-	Subscription data for extended buffering at the SGW	13.2.0
		150454 CP-	2 046	-	Overlapping transaction over S6b	
		150442 CP-	3 046	2	Addition of IMSI Group Id AVP definition	
		150453 CP-	4 046	3	Addition of CP parameter AVP definition	
		150449 CP-	5 047	1	AVP codes for TS 29.212	-
		150431 CP-	0 047	3	AVP definiton for S6t	1
2015-12	CT#70	150456 CP-	1 047	-	Addition of MBMS-Cell-List AVP	13.3.0
		150761 CP-	3 047	-	S6t Application ID and Command Codes	-
		150778 CP-	4 047	1	Bitmask to inform the SCEF of the Monitoring capabilities	-
		150778 CP-	4 049	1	AVP codes for MONTE T6a/b interface	-
		150778 CP-	0	1	Correction to SCEF-Reference-ID and SCEF-Reference-ID-For-Deletion	_
		150778 CP-	1 049	2	data types Definition of AVP for deletion of all Monitoring events assigned to a	_
		150778 CP-	4 050	1	subscriber (UE) Definition of AVP SCEF-ID	-
		150778 CP-	1 050	2	Service result per Event configuration	-
		150778 CP-	2 047	1	Emergency PDN connection over untrusted WLAN access	-
		150770 CP-	5 047	- -	EPC-MT-LR and PS-MT-LR procedure for UEs transiently not reachable due	-
		150776 CP-	6 049	1	to power saving Mobile Terminating SMS handling for extended Idle mode DRX	<u> </u>
		150776 CP-	7 049	1	Mobile Terminating SMS handling for extended Idle mode DRX – Additional	
		150776	8	<u> </u>	Option	

ĺ	ĺ	ICP-	047	3	Commands and codes for Np protocol	_
		150777	7			
		CP- 150772	047	1	Definition of ProSe-Metadata-Index-Mask	
		CP-	048	-	Addition of AVPs and result-codes	7
		150772	9 050		Addition of AVD used in motely report precedure for oDroCo Fut CT	4
		CP- 150772	050	-	Addition of AVP used in match report procedure for eProSe-Ext-CT	
		CP- 150754	048	1	Allowed WAF and/or WWSF Identities	7
		CP-	048	-	Add the default access type to 3GPP specific AVP	\dashv
		150773	2			_
		CP- 150781	048 4	1	AVP code allocation for "UE Usage Type"	
		CP-	048	-	Metadata in Match-Report	
		150755 CP-	6 048	-	New Group AVP for ProSe direct discovery procedures	_
		150755	8			
		CP- 150771	049	1	Definition of AVP for AESE-CT	
		CP-	049	1	Command codes and AVP range for TS 29.154 and TS 29.153	7
		150771	6	4	AVP codes for Indoor Positioning support in SLg/Lgd	_
		CP- 150776	049 5	1	AVP codes for indoor Positioning support in SLg/Lgd	
2016-03	CT#71	CP-	050	-	Application ID for St	13.4.0
	}	160041 CP-	3 050	1	Correction on TS numbers	\dashv
		160041	6			_
		CP- 160041	051 0	-	AVPs for the Rx Diameter application	
	Ì	CP-	051	2	AVP code reservation for 32.299	7
		160041 CP-	4 051	1	Codes for 29.212	4
		160041	8	'		
		CP-	050	3	New AVP assignment for MONTE	
		160029 CP-	5 050	-	Change of type of Monitoring-Duration AVP to represent an absolute time	\dashv
		160029	9			_
		CP- 160035	050 7	-	Remove the default access AVP	
	İ	CP-	050	-	Specific AVP codes for NBIFOM	
		160035 CP-	051	-	Alert procedure from MME/SGSN to SMS-GMSC for MT SMS to UE using	\dashv
		160030	1		eDRX	_
		CP- 160037	051 2	-	ePDG retrieval of WLAN Location Information	
	Ì	CP-	051	2	Definition of AVP Authorization of NIDD	7
		160033 CP-	3 052	2	New PDN-Type for Cellular IoT	_
		160033	0	_		
		CP- 160036	051	1	Monitoring update and Reporting of update result	
		CP-	051	3	Allocation of new Diameter Application ID and commands code for PC2	┥
2016-03	CT#71	160036 CP-	9 051	1	protocol AVP code reservation for 32.299	14.0.0
2010-03		160018	5	1	AVE COURTESETVATION TO SZ.233	14.0.0
2016-06	CT#72	CP-	052	1	Command Codes for 29.212	14.1.0
2016-06	CT#72	160236 CP-	054	-	AVP code range 3900-3999	14.1.0
		160236	3	ļ		
2016-06	CT#72	CP- 160236	055 7	1	New AVPs in TS 29.214	14.1.0
2016-06	CT#72	CP-	056	-	AVP codes for 29.212	14.1.0
2016-06	CT#72	160236 CP-	5 052	2	AVP Codes for 29.343	14.1.0
		160232	8			
2016-06	CT#72	CP- 160232	053 3	3	Addition of new AVPs for ProSe direct discovery security and open ProSe direct discovery with application-controlled extension	14.1.0
2016-06	CT#72	CP-	054	-	Reserved Experimental Result Codes for TS 29.343	14.1.0
		160232	0		·	
2016-06	CT#72	CP- 160232	054 9	-	Assignment of application ID and command code for PC2 reference point	14.1.0
2016-06	CT#72	CP-	053	-	IANA Command Code Registration	14.1.0
		160228	1			

2016-06	CT#72	CP- 160228	054 1	1	CloT new commands and Diameter error	14.1.0
2016-06	CT#72	CP- 160228	055 0	-	NIDD authorisation update	14.1.0
2016-06	CT#72	CP- 160228	056 0	3	Serving PLMN Rate Control	14.1.0
2016-06	CT#72	CP- 160228	056 3	-	New AVP for APN Rate Control	14.1.0
2016-06	CT#72	CP-	053	1	Renaming of Validity-Time AVP	14.1.0
2016-06	CT#72	160233 CP-	056	1	New AVPs allocated for 29.153 and 29.154	14.1.0
2016-06	CT#72	160233 CP-	054	3	SCEF Realm	14.1.0
2016-06	CT#72	160225 CP-	5 054	-	Cleanup up on MONTE AVP's	14.1.0
2016-06	CT#72	160225 CP-	8 054	-	IANA assigned application Id and command code values	14.1.0
2016-06	CT#72	160227 CP-	6 054	2	Allocation of AVP codes and Experimental Result codes for Diameter Data	14.1.0
2016-06	CT#72	160227 CP-	7 055	1	Management application 3GPP specific AVP for NBIFOM	14.1.0
2016-06	CT#72	160231 CP-	3	1	Shared Subscription data update	14.1.0
		160222	5			
2016-09	CT#73	CP- 160424	057 0	1	Missing AVP codes and Experimental-Result codes for T6a	14.2.0
2016-09	CT#73	CP- 160424	057 4	1	Allocate of AVP Handling of Exception Reports in the Core Network	14.2.0
2016-09	CT#73	CP- 160419	057 2	1	AVP codes for 32.299	14.2.0
2016-09	CT#73	CP- 160419	057 6	1	AVP code for 29.214	14.2.0
2016-09	CT#73	CP- 160419	057 8	1	AVP code for 29.212	14.2.0
2016-09	CT#73	CP-	056	1	STa and SWm extensions for IMEI check	14.2.0
2016-12	CT#74	160436 CP-	058	-	AVP code alignment with 29.272	14.3.0
2016-12	CT#74	160650 CP-	2 057	1	AVPs for Handover of Emergency PDN Connections	14.3.0
2016-12	CT#74	160679 CP-	9 058	1	New Diameter Application Code, AVP and Result Code for V2X	14.3.0
2016-12	CT#74	160678 CP-	3 058	1	Renaming of Emergency-Indication AVP	14.3.0
2016-12	CT#74	160653 CP-	5 058	2	New AVPs for TS 29.214	14.3.0
2016-12	CT#74	160670 CP-	6 059	-	S6t-HSS-Cause	14.3.0
2016-12	CT#74	160660 CP-	0 059	_	AVP codes for 29.468	14.3.0
		160669 CP-	1 059	1		
2017-03	CT#75	170039	2	1	Enhanced Coverage	14.4.0
2017-03	CT#75	CP- 170039	059 3	1	Inter-RAT PDN-Continuity	14.4.0
2017-03	CT#75	CP- 170039	059 5	1	NIDD Authorization revocation	14.4.0
2017-03	CT#75	CP- 170036	059 4	1	Loss Of Connectivity Reason	14.4.0
2017-03	CT#75	CP- 170036	060 2	1	Subscription parameters for eDRX	14.4.0
2017-03	CT#75	CP- 170036	060 7	1	Support of long and short Macro eNodeB IDs	14.4.0
2017-03	CT#75	CP- 170025	059	-	AVP codes for 32.299	14.4.0
2017-03	CT#75	CP-	059	1	New AVP for UE-PC5-AMBR	14.4.0
2017-03	CT#75	170043 CP-	060	1	Correct Diameter Result Code Allocated for V2X	14.4.0
2017-03	CT#75	170043 CP-	3 060	1	AVPs for ERP in 29.273	14.4.0
2017-03	CT#75	170049 CP-	1 060	-	Update of the name of MCPTT-User-Profile-Data AVP	14.4.0
2017-03	CT#75	170052 CP-	5 060	-	Support of MCVideo and MCData Services	14.4.0
		170045	6			

2017-06	CT#76	CP-	060	4	New AVP for Group Based MONTE Event Configuration via HSS	14.5.0
		171029	0			
2017-06	CT#76	CP- 171017	060 9	-	New AVPs in 29.272 for MBSFN MDT	14.5.0
2017-06	CT#76	CP- 171026	061 0	-	AVP codes for 29.212	14.5.0
2017-06	CT#76	CP- 171026	061 1	-	AVP codes for 29.214	14.5.0
2017-06	CT#76	CP- 171030	061 2	1	AVP code allocation for 29.172 for Location Services for CioT	14.5.0
2017-06	CT#76	CP- 171030	061 3	-	Addition of APN-Validity-Time AVP	14.5.0
2017-06	CT#76	CP- 171026	061 5	-	AVP codes for 32.299	14.5.0
2017-09	CT#77	CP- 172018	061 6	1	Reliable Data Service Success cause	14.6.0
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